

Federal Communications Commission

§ 80.355

or ship earth station and cancel the distress alert.

(f) General and other distress alerting systems. Notwithstanding paragraphs (a) through (e) of this section, ships may use additional appropriate means available to them to inform the nearest appropriate U.S. Coast Guard rescue coordination center that a false distress alert has been transmitted and should be cancelled.

[68 FR 46968, Aug. 7, 2003, as amended at 73 FR 4485, Jan. 25, 2008]

Subpart H—Frequencies

RADIOTELEGRAPHY

§ 80.351 Scope.

The following sections describe the carrier frequencies and general uses of radiotelegraphy with respect to the following:

- Distress, urgency, safety, call and reply.
- Working.
- Digital selective calling (DSC).
- Narrow-band direct-printing (NB-DP).
- Facsimile.

§ 80.353 [Reserved]

§ 80.355 Distress, urgency, safety, call and reply Morse code frequencies.

This section describes the distress, urgency, safety, call and reply carrier frequencies assignable to stations for Morse code radiotelegraphy.

(a) *Frequencies in the 100–160 kHz band.* The international calling frequency in the 100–160 kHz band is 143 kHz using A1A or J2A emission. When a ship station operating in the 100–160 kHz band desires to communicate with a coast station, it must call on the fre-

quency 143 kHz unless the International List of Coast Stations provides otherwise. Coast stations must reply on their normal working frequency in this band. Only individual calls, replies to such calls, and transmission of signals preparatory to traffic may be transmitted on 143 kHz.

(b) *Frequencies in the 2000–27500 kHz band—(1) Ship station frequencies.* The following table describes the calling frequencies in the 4000–27500 kHz band which are available for use by authorized ship stations equipped with crystal-controlled oscillators for A1A, J2A, J2B, or J2D radiotelegraphy. There are two series of frequencies for worldwide use and two series of frequencies for each geographic region. Ship stations with synthesized transmitters may operate on every full 100 Hz increment in the 0.5 kHz channel for the frequencies listed, except for 100 Hz above and below those designated for worldwide use. During normal business hours when not communicating on other frequencies, all U.S. coast radiotelegraph stations must monitor the worldwide frequencies and the initial calling frequencies for the region in which it is located. The specific frequencies which must be monitored by a coast station will vary with propagation conditions. The calling frequencies which are routinely monitored by specific coast stations can be determined by reference to the ITU publication entitled “List of Coast Stations.” Initial calls by ship stations must be made on the appropriate initial calling frequency first. Calls on the worldwide frequencies may be made only after calls on the appropriate initial calling frequency are unsuccessful.

SHIP MORSE CALLING FREQUENCIES (kHz)

Region:	ITU							ITU	
Worldwide	3	4184.0	6276.0	8368.0	12552.0	16736.0	22280.5	C	25172.0
	4	4184.5	6276.5	8369.0	12553.5	16738.0	22281.0	C	25172.0
Atlantic:									
Initial	1	4182.0	6277.0	8366.0	12550.0	16734.0	22279.5	A	25171.5
Alternate	2	4182.5	6277.5	8366.5	12550.5	16734.5	22280.0	A	25171.5
Caribbean:									
Initial	1	4182.0	6277.0	8366.0	12550.0	16734.0	22279.5	A	25171.5
Alternate	2	4182.5	6277.5	8366.5	12550.5	16734.5	22280.0	A	25171.5
Gulf-Mexico:									
Initial	5	4183.0	6278.0	8367.0	12551.0	16735.0	22281.5	A	25171.5
Alternate	6	4183.5	6278.5	8367.5	12551.5	16735.5	22282.0	A	25171.5

SHIP MORSE CALLING FREQUENCIES (kHz)—Continued

N Pacific:									
Initial	7	4185.0	6279.0	8368.5	12552.5	16736.5	22282.5	B	25172.5
Alternate	8	4185.5	6279.5	8369.5	12553.0	16737.0	22283.0	B	25172.5
S Pacific:									
Initial	9	4186.0	6280.0	8370.0	12554.0	16737.5	22283.5	B	25172.5
Alternate	10	4186.5	6280.5	8370.5	12554.5	16738.5	22284.0	B	25172.5

(2) *Coast Station frequencies.* Coast stations may use any working carrier frequency for distress, safety and calling listed in §80.357(b)(1) which is not identified with a specific use.

(c) *Frequencies in the VHF bands.* (1) Survival craft stations using 121.500 MHz may be assigned A3N emission for radiobeacon purposes.

(2) EPIRB stations may be assigned 121.500 MHz and 243 MHz using A3E, A3X and NON emission or 406.0–406.1 MHz using G1D emission to aid search and rescue operations. See subpart V of this part.

[51 FR 31213, Sept. 2, 1986; 51 FR 34984, Oct. 1, 1986; 52 FR 35245, Sept. 18, 1987; 56 FR 9886, Mar. 8, 1991; 56 FR 11516, Mar. 19, 1991; 68 FR 46969, Aug. 7, 2003; 69 FR 64674, Nov. 8, 2004]

§ 80.357 Working frequencies for Morse code and data transmission.

This section describes the working frequencies assignable to maritime stations for A1A, J2A, J2B (2000–27500 kHz band only), or J2D (2000–27500 kHz band only) radiotelegraphy.

(a) *Ship station frequencies—(1) Frequencies in the 100–160 kHz band.* The following table describes the working carrier frequencies in the 100–160 kHz band which are assignable to ship stations. A ship station may also transmit on a radiotelegraphy working channel of a coast station within the 100–160 kHz band when directed to do so by the coast station provided interference is not caused to any land, fixed, broadcast, or radiolocation station.

100–160 (kHz)	
	152
	153
	154
	155

SHIP MORSE WORKING FREQUENCIES (kHz)

Channel Series:							
W1	4187.0	6285.0	8342.0	12422.0	16619.0	22242.0	25161.5

100–160 (kHz)

156
157
158

(2) *Frequencies in the 405–525 kHz band.* The following table describes the working carrier frequencies in the 405–525 kHz band which are assignable to ship stations. A ship station may transmit on a radiotelegraphy working channel of a coast station in the 415–490 kHz band when directed to do so by the coast station.

405–525 (kHz)

1 410
425
454
468
480
2 512
3 518

¹The frequency 410 kHz may be used on a secondary basis for the transmission of radiodetermination information and for transmitting by radiotelegraph radiodetermination related messages to direction-finding stations.

²The frequency 512 kHz may be used as a supplementary calling frequency when 500 kHz is used for distress, safety and urgency communications. The use of the 512 kHz as a working frequency is prohibited in areas where it is used as a supplementary calling frequency when 500 kHz is used for distress, safety, and urgency communications.

³The frequency 518 kHz is a receive only frequency by ship stations. It is used by U.S. Coast Guard coast stations for NB-DP transmissions of meteorological and navigational warnings to ships.

(3) *Frequencies in the 2000–27500 kHz band.* This paragraph describes the working frequencies and Channel Series in the 2000–27500 kHz band which are assignable to ship stations.

(i) Two Channel Series will be assigned for routine use to each ship station. Frequencies from any other Channel Series may be used if the frequencies in the assigned Channel Series are not adequate for communications.

Federal Communications Commission

§ 80.357

SHIP MORSE WORKING FREQUENCIES (kHz)—Continued

			8343.5	12453.0	16650.0	22273.0	
					16681.0		
W2	4187.5	6285.5	8342.5	12422.5	16619.5	22242.5	25162.0
			8344.0	12453.5	16650.5	22273.5	
					16681.5		
W3	4188.0	6286.0	8343.0	12423.0	16620.0	22243.0	25162.5
			8344.5	12454.0	16651.0	22274.0	
					16682.0		
W4	4188.5	6286.5	8343.5	12423.5	16620.5	22243.5	25163.0
			8345.0	12454.5	16651.5	22274.5	
					16682.5		
W5	4189.0	6287.0	8344.0	12424.0	16621.0	22244.0	25163.5
			8345.5	12455.0	16652.0	22275.0	
					16683.0		
W6	4189.5	6287.5	8344.5	12424.5	16621.5	22244.5	25164.0
			8346.0	12455.5	16652.5	22275.5	
					16619.0		
W7	4190.0	6288.0	8345.0	12425.0	16622.0	22245.0	25164.5
			8346.5	12456.0	16653.0	22276.0	
					16619.5		
W8	4190.5	6288.5	8345.5	12425.5	16622.5	22245.5	25165.0
			8347.0	12456.5	16653.5	22276.5	
					16620.0		
W9	4191.0	6289.0	8346.0	12426.0	16623.0	22246.0	25165.5
			8347.5	12457.0	16654.0	22277.0	
					16620.5		
W10	4191.5	6289.5	8346.5	12426.5	16623.5	22246.5	25166.0
			8348.0	12457.5	16654.5	22270.5	
					16621.0		
W11	4192.0	6290.0	8347.0	12427.0	16624.0	22247.0	25166.5
			8348.5	12458.0	16655.0	22278.0	
					16621.5		
W12	4192.5	6290.5	8347.5	12427.5	16624.5	22247.5	25167.0
			8349.0	12458.5	16655.5	22278.5	
					16622.0		
W13	4193.0	6291.0	8348.0	12428.0	16625.0	22248.0	25167.5
			8349.5	12459.0	16656.0	22279.0	
					16622.5		
W14	4193.5	6291.5	8348.5	12428.5	16625.5	22248.5	25168.0
			8350.0	12459.5	16656.5	22242.0	
					16623.0		
W15	4194.0	6292.0	8349.0	12429.0	16626.0	22249.0	25168.5
			8350.5	12460.0	16657.0	22242.5	
					16623.5		
W16	4194.5	6292.5	8349.5	12429.5	16626.5	22249.5	25169.0
			8351.0	12460.5	16657.5	22243.0	
					16624.0		
W17	4195.0	6293.0	8350.0	12430.0	16627.0	22250.0	25169.5
			8351.5	12461.0	16658.0	22243.5	
					16624.5		
W18	4195.5	6293.5	8350.5	12430.5	16627.5	22250.5	25170.0
			8352.0	12461.5	16658.5	22244.0	
					16625.0		
W19	4196.0	6294.0	8351.0	12431.0	16628.0	22251.0	25170.5
			8352.5	12462.0	16659.0	22244.5	
					16625.5		
W20	4196.5	6294.5	8351.5	12431.5	16628.5	22251.5	25171.0
			8353.0	12462.5	16659.5	22245.0	
					16626.0		
W21	4197.0	6295.0	8352.0	12432.0	16629.0	22252.0	25161.5
			8353.5	12463.0	16660.0	22245.5	
					16626.5		
W22	4197.5	6295.5	8352.5	12432.5	16629.5	22252.5	25162.0
			8354.0	12463.5	16660.5	22246.0	
					16627.0		

SHIP MORSE WORKING FREQUENCIES (kHz)—Continued

W23	4198.0	6296.0	8353.0 8354.5	12433.0 12464.0	16630.0 16661.0 16627.5	22253.0 22246.5	25162.5
W24	4198.5	6296.5	8353.5 8355.0	12433.5 12464.5	16630.5 16661.5 16628.0	22253.5 22247.0	25163.0
W25	4199.0	6297.0	8354.0 8355.5	12434.0 12465.0	16631.0 16662.0 16628.5	22254.0 22247.5	25163.5
W26	4199.5	6297.5	8354.5 8356.0	12434.5 12465.5	16631.5 16662.5 16629.0	22254.5 22248.0	25164.0
W27	4200.0	6298.0	8355.0 8356.5	12435.0 12466.0	16632.0 16663.0 16629.5	22255.0 22248.5	25164.5
W28	4200.5	6298.5	8355.5 8357.0	12435.5 12466.5	16632.5 16663.5 16630.0	22255.5 22249.0	25165.0
W29	4201.0	6299.0	8356.0 8357.5	12436.0 12467.0	16633.0 16664.0 16630.5	22256.0 22249.5	25165.5
W30	4201.5	6299.5	8356.5 8358.0	12436.5 12467.5	16633.5 16664.5 16631.0	22256.5 22250.0	25166.0
W31	4202.0	6300.0	8357.0 8358.5	12437.0 12468.0	16634.0 16665.0 16631.5	22257.0 22250.5	25166.5
W32	4202.0	6300.0	8357.5 8359.0	12437.5 12468.5	16634.5 16665.5 16632.0	22257.5 22251.0	25167.0
W33	4201.5	6299.5	8358.0 8359.5	12438.0 12469.0	16635.0 16666.0 16632.5	22258.0 22251.5	25167.5
W34	4201.0	6299.0	8358.5 8360.0	12438.5 12469.5	16635.5 16666.5 16633.0	22258.5 22252.0	25168.0
W35	4200.5	6298.5	8359.0 8360.5	12439.0 12470.0	16636.0 16667.0 16633.5	22259.0 22252.5	25168.5
W36	4200.0	6298.0	8359.5 8361.0	12439.5 12470.5	16636.5 16667.5 16634.0	22259.5 22253.0	25169.0
W37	4199.5	6297.5	8360.0 8361.5	12440.0 12471.0	16637.0 16668.0 16634.5	22260.0 22253.5	25169.5
W38	4199.0	6297.0	8360.5 8362.0	12440.5 12471.5	16637.5 16668.5 16635.0	22260.5 22254.0	25170.0
W39	4198.5	6296.5	8361.0 8362.5	12441.0 12472.0	16638.0 16669.0 16635.5	22261.0 22254.5	25170.5
W40	4198.0	6296.0	8361.5 8363.0	12441.5 12472.5	16638.5 16669.5 16636.0	22261.5 22255.0	25171.0
W41	4197.5	6295.5	8362.0 8363.5	12442.0 12473.0	16639.0 16670.0 16636.5	22262.0 22255.5	25161.5
W42	4197.0	6295.0	8362.5 8364.0	12442.5 12473.5	16639.5 16670.5 16637.0	22262.5 22256.0	25162.0
W43	4196.5	6294.5	8363.0 8364.5	12443.0 12474.0	16640.0 16671.0 16637.5	22263.0 22256.5	25162.5
W44	4196.0	6294.0	8363.5 8365.0	12443.5 12474.5	16640.5 16671.5	22263.5 22257.0	25163.0

SHIP MORSE WORKING FREQUENCIES (kHz)—Continued

W45	4195.5	6293.5	8364.0	12444.0	16638.0	22264.0	25163.5
			8365.5	12475.0	16641.0		
W46	4195.0	6293.0	8364.5	12444.5	16672.0	22264.5	25164.0
			8371.0	12475.5	16672.5		
W47	4194.5	6292.5	8365.0	12445.0	16638.5	22265.0	25164.5
			8371.5	12476.0	16673.0		
W48	4194.0	6292.0	8365.5	12445.5	16639.0	22265.5	25165.0
			8372.0	12476.5	16673.5		
W49	4193.5	6291.5	8371.0	12446.0	16640.0	22266.0	25165.5
			8372.5	12422.0	16674.0		
W50	4193.0	6291.0	8371.5	12446.5	16640.5	22266.5	25166.0
			8373.0	12422.5	16674.5		
W51	4192.5	6290.5	8372.0	12447.0	16641.0	22267.0	25166.5
			8373.5	12423.0	16675.0		
W52	4192.0	6290.0	8372.5	12447.5	16641.5	22267.5	25167.0
			8374.0	12423.5	16675.5		
W53	4191.5	6289.5	8373.0	12448.0	16642.0	22268.0	25167.5
			8374.5	12424.0	16676.0		
W54	4191.0	6289.0	8373.5	12448.5	16642.5	22268.5	25168.0
			8375.0	12424.5	16676.5		
W55	4190.5	6288.5	8374.0	12449.0	16643.0	22269.0	25168.5
			8375.5	12425.0	16677.0		
W56	4190.0	6288.0	8374.5	12449.5	16643.5	22269.5	25169.0
			8376.0	12425.5	16677.5		
W57	4189.5	6287.5	8375.0	12450.0	16644.0	22270.0	25169.5
			8342.0	12426.0	16678.0		
W58	4189.0	6287.0	8375.5	12450.5	16644.5	22270.5	25170.0
			8342.5	12426.5	16678.5		
W59	4188.5	6286.5	8376.0	12451.0	16645.0	22271.0	25170.5
			8343.0	12427.0	16679.0		
W60	4188.0	6286.0	8342.0	12451.5	16645.5	22271.5	25171.0
			8343.5	12427.5	16679.5		
W61	4187.5	6285.5	8342.5	12452.0	16646.0	22272.0	25161.5
			8344.0	12428.0	16680.0		
W62	4187.0	6285.0	8343.0	12452.5	16646.5	22272.5	25162.0
			8344.5	12428.5	16680.5		
					16678.0		

(ii) If the frequencies listed in paragraph (3)(i) of this section are not adequate for communications, ship stations may use any of the non-paired narrow-band direct-printing fre-

quencies listed in § 80.361(b) of this part for A1A or J2A radiotelegraphy.

(b) *Coast station frequencies*—(1) *Frequencies in the 100–27500 kHz band.* The following table describes the working

§ 80.357

47 CFR Ch. I (10–1–10 Edition)

carrier frequencies in the 100–27500 kHz band which are assignable to coast stations located in the designated geographical areas. The exclusive maritime mobile HF bands listed in the table contained in §80.363(a)(2) of this

chapter are also available for assignment to public coast stations for A1A, J2A, J2B, or J2D radiotelegraphy following coordination with government users.

Area	Bands ¹								
	100–160 kHz	405–525 kHz	2 MHz	4 MHz	6 MHz	8 MHz	12 MHz	16 MHz	22 MHz
Central Pacific	126.15	426.00	2037.5	4247.0	6348.0	8558.0	12695.5	17016.8	22479.0
		436.00	2045.0	4274.0	6365.5	8618.0	12808.5	17026.0	22515.0
	147.85	460.00	2061.5	4228.0	6477.5	8642.0	12844.5	17088.8	22557.0
		476.0			6488.0	8445.0	13002.0		22581.5
		500.00					13033.5		
South Pacific		512.00							
		418.00	2049.5	4238.0	6355.0	8590.0	12691.0	17064.8	22467.0
		464.00	2055.5	4283.0	6463.5	8606.0	12912.0	17088.8	22593.5
		482.00				8642.0	12993.0	17220.5	
		500.00					13033.5		
Gulf of Mexico		512.00							
	153.00	410.00	2042.0	4256.0	6369.0	8473.0	12704.5	17117.6	22467.0
		420.00	2048.0	4274.0	6435.5	8550.0	12826.5	17170.4	22668.5
		434.00	2049.5	4310.0	6446.0	8570.0	12840.0	17172.4	22686.5
		438.00	2052.5	4322.0	6495.0	8666.0	13038.0	17230.1	22688.0
Great Lakes		478.00	2055.5			8445.0	13051.5		
		484.00	2063.0			8453.0	12660.0		
		500.00							
		512.00							
		482.00		4316.0	6474.0	8534.0			
Hawaii		500.00							
		512.00							
		484.00	2052.5	4295.0	6407.5	8542.0	13029.0	16978.4	22509.0
Puerto Rico		500.00							
		512.00							
	153.00	486.00	2052.5	4244.0		8457.0	12700.0		
North Atlantic		500.00							
		512.00							
	112.85	418.00	2036.0	4238.0	6351.5	8502.0	12745.5	16933.2	22485.0
	124.05	436.00	2040.5	4268.0	6376.0	8514.0	12925.5	16968.8	22503.0
	130.35	442.00	2046.5	4331.0	6414.5	8586.0	12948.0	16973.6	22521.0
	132.10	460.00	2051.0	4343.0	6418.0	8610.0	12961.5	16997.6	22599.5
	134.55	472.00	2054.0	4346.0	6333.5	8630.0	12997.5	17021.6	22640.0
	137.00	476.00	2060.0		6337.0	8658.0	13020.0	17093.6	22658.0
		482.00			6344.0	8686.0	13024.5	16904.9	
	146.80	500.00					13033.5		
Central Atlantic	147.50	512.00					13060.5		
		428.00	2063.0	4346.0	6484.5	8502.0	12885.0	16916.5	22588.5
		500.00							
		512.00							
	137.70	434.00	2039.0	4250.0	6389.6	8486.0	12952.5	16918.8	22503.0
South Atlantic		464.00	2043.5	4292.0	6407.5	8525.0	12970.5	17093.6	22575.5
		472.00	2051.0	4295.0	6411.0	8686.0	13011.0	17160.8	
		488.00	2057.0			8453.0	12660.0	17170.4	
		500.00						17239.7	
		512.00							
North Pacific		482.00	2058.5	4349.0	6411.0	8582.0	12907.5	17007.2	22539.0
		488.00	2063.0			8658.0	12916.5		
		500.00							
Alaska		512.00							
		416.00							
		438.00							
		452.00							
		472.00							
		512.00							

¹ All frequencies in this table are shown in kilohertz.

Federal Communications Commission

§ 80.359

(2) *Conditions of use.* The following conditions are applicable to these frequencies:

(i) Frequencies in the 100-160 kHz band are assignable to coast stations for high seas communications only;

(ii) Frequencies above 5 MHz may be assigned primarily to stations serving the high seas and secondarily to stations serving inland waters of the United States, including the Great Lakes, under the condition that interference will not be caused to any coast station serving the high seas.

(iii) The frequency 410 kHz may be used on a secondary basis for the transmission of radiodetermination information and for transmitting by radiotelegraph radiodetermination messages to direction-finding stations; and

[51 FR 31213, Sept. 2, 1986; 51 FR 34984, Oct. 1, 1986, as amended at 56 FR 9887, Mar. 8, 1991; 56 FR 34029, July 25, 1991; 65 FR 77824, Dec. 13, 2000; 67 FR 48264, July 15, 2002; 68 FR 46969, Aug. 7, 2003; 69 FR 64674, Nov. 8, 2004]

§ 80.359 Frequencies for digital selective calling (DSC).

(a) *General purpose calling.* The following table describes the calling fre-

quencies for use by authorized ship and coast stations for general purpose DSC. There are three series of paired frequencies. One series is for worldwide use; the other two series are for regional use. The "Series A" designation includes coast stations along, and ship stations in, the Atlantic Ocean, the Gulf of Mexico, and the Caribbean Sea. The "Series B" designation includes stations in any remaining areas. Stations must initiate contact on the appropriate regional frequency depending upon the location of the called station and propagation conditions. Acknowledgement is made on the paired frequency. The worldwide frequencies may be used for international calling, if calls on the appropriate regional frequencies are unsuccessful, or the regional series does not contain the appropriate band (e.g., 2 MHz). During normal working hours, all public coast stations capable of DSC operations must monitor the worldwide and regional frequencies appropriate for its location. The specific frequencies to be monitored will vary with propagation conditions.

GENERAL PURPOSE DSC

[In kHz unless otherwise noted]

Worldwide		Series A		Series B	
Ship	Coast	Ship	Coast	Ship	Coast
458.5	455.5	.....	.....	.....	.....
2189.5	¹ 2177.0	.....	.....	.....	.....
4208.0	4219.5	.....	.....	.....	.....
6312.5	6331.0	4208.5	4220.0	4209.0	4220.5
8415.0	8436.5	6313.0	6331.5	6313.5	6332.0
12577.5	12657.0	8415.5	8437.0	8416.0	8437.5
16805.0	16903.0	12578.0	12657.5	12578.5	12658.0
18898.5	19703.5	16805.5	16903.5	16806.0	16904.0
22374.5	22444.0	18899.0	19704.0	18899.5	19704.5
25208.5	26121.0	22375.0	22444.5	22375.5	22445.0
² 156.525	² 156.525	25209.0	26121.5	25209.5	26122.0
.....

¹ The frequency 2177.0 kHzs is also available to ship stations for intership calling and acknowledgement of such calls only.

² MHz.

(b) *Distress and safety calling.* The frequencies 2187.5 kHz, 4207.5 kHz, 6312.0 kHz, 8414.5 kHz, 12577.0 kHz, 16804.5 kHz and 156.525 MHz may be used for DSC by coast and ship stations on a simplex basis for distress and safety purposes, and may also be used for routine ship-to-ship communications provided that priority is accorded to distress and safety communications. The provisions

and procedures for distress and safety calling are contained in ITU-R Recommendation M.541-9, "Operational Procedures for the Use of Digital Selective-Calling Equipment in the Maritime Mobile Service," with Annexes 1 through 5, 2004, and § 80.103(c). ITU-R Recommendation M.541-9 with Annexes is incorporated by reference. The Director of the Federal Register approves

§ 80.361

this incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies of this standard can be inspected at the Federal Communications Commission, 445 12th Street, SW., Washington, DC (Reference Information Center) or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. The ITU-R Recommendation can be purchased from the International Telecommunication Union (ITU), Place des Nations, CH-1211 Geneva 20, Switzerland.

(c) *Working frequencies.* Coast and ship stations may use DSC techniques for general calling purposes on their assigned working frequencies in the

47 CFR Ch. I (10–1–10 Edition)

2000–27500 kHz band and on those frequencies in the 156–162 MHz band which are allocated for maritime control, commercial, non-commercial and public correspondence communications.

[51 FR 31213, Sept. 2, 1986, as amended at 54 FR 49995, Dec. 4, 1989; 56 FR 9890, Mar. 8, 1991; 56 FR 14150, Apr. 5, 1991; 68 FR 46969, Aug. 7, 2003; 73 FR 4485, Jan. 25, 2008]

§ 80.361 Frequencies for narrow-band direct-printing (NBDP), radioprinter and data transmissions.

(a) *Paired channels.* The following frequencies are available for assignment to public coast stations for narrow-band direct-printing (NBDP) and data transmissions. The paired ship frequencies are available for use by authorized ship stations for NBDP and data transmissions.

Ch. no.	Paired frequencies for NBDP and data transmissions (kHz)															
	4 MHz		6 MHz		8 MHz		12 MHz		16 MHz		18/19 MHz		22 MHz		25/26 MHz	
	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship
1	4210.5	4172.5	6314.5	6263.0			12579.5	12477.0	16807.0	16683.5	19681.0	18870.5	22376.5	22284.5	26101.0	25173.0
2	4211.0	4173.0	6315.0	6263.5	8417.0	8377.0	12580.0	12477.5	16807.5	16684.0	19681.5	18871.0	22377.0	22285.0	26101.5	25173.5
3	4211.5	4173.5	6315.5	6264.0	8417.5	8377.5	12580.5	12478.0	16808.0	16684.5	19682.0	18871.5	22377.5	22285.5	26102.0	25174.0
4	4212.0	4174.0	6316.0	6264.5	8418.0	8378.0	12581.0	12478.5	16808.5	16685.0	19682.5	18872.0	22378.0	22286.0	26102.5	25174.5
5	4212.5	4174.5	6316.5	6265.0	8418.5	8378.5	12581.5	12479.0	16809.0	16685.5	19683.0	18872.5	22378.5	22286.5	26103.0	25175.0
6	4213.0	4175.0	6317.0	6265.5	8419.0	8379.0	12582.0	12479.5	16809.5	16686.0	19683.5	18873.0	22379.0	22287.0	26103.5	25175.5
7	4213.5	4175.5	6317.5	6266.0	8419.5	8379.5	12582.5	12480.0	16810.0	16686.5	19684.0	18873.5	22379.5	22287.5	26104.0	25176.0
8	4214.0	4176.0	6318.0	6266.5	8420.0	8380.0	12583.0	12480.5	16810.5	16687.0	19684.5	18874.0	22380.0	22288.0	26104.5	25176.5
9	4214.5	4176.5	6318.5	6267.0	8420.5	8380.5	12583.5	12481.0	16811.0	16687.5	19685.0	18874.5	22380.5	22288.5	26105.0	25177.0
10	4215.0	4177.0	6319.0	6267.5	8421.0	8381.0	12584.0	12481.5	16811.5	16688.0	19685.5	18875.0	22381.0	22289.0	26105.5	25177.5
11					8421.5	8381.5	12584.5	12482.0	16812.0	16688.5	19686.0	18875.5	22381.5	22289.5	26106.0	25178.0
12	4215.5	4178.0	6319.5	6268.5	8422.0	8382.0	12585.0	12482.5	16812.5	16689.0	19686.5	18876.0	22382.0	22290.0	26106.5	25178.5
13	4216.0	4178.5	6320.0	6269.0	8422.5	8382.5	12585.5	12483.0	16813.0	16689.5	19687.0	18876.5	22382.5	22290.5	26107.0	25179.0
14	4216.5	4179.0	6320.5	6269.5	8423.0	8383.0	12586.0	12483.5	16813.5	16690.0	19687.5	18877.0	22383.0	22291.0	26107.5	25179.5
15	4217.0	4179.5	6321.0	6270.0	8423.5	8383.5	12586.5	12484.0	16814.0	16690.5	19688.0	18877.5	22383.5	22291.5	26108.0	25180.0
16	4217.5	4180.0	6321.5	6270.5	8424.0	8384.0	12587.0	12484.5	16814.5	16691.0	19688.5	18878.0	22384.0	22292.0	26108.5	25180.5
17	4218.0	4180.5	6322.0	6271.0	8424.5	8384.5	12587.5	12485.0	16815.0	16691.5	19689.0	18878.5	22384.5	22292.5	26109.0	25181.0
18			6322.5	6271.5	8425.0	8385.0	12588.0	12485.5	16815.5	16692.0	19689.5	18879.0	22385.0	22293.0	26109.5	25181.5
19			6323.0	6272.0	8425.5	8385.5	12588.5	12486.0	16816.0	16692.5	19690.0	18879.5	22385.5	22293.5	26110.0	25182.0
20			6323.5	6272.5	8426.0	8386.0	12589.0	12486.5	16816.5	16693.0	19690.5	18880.0	22386.0	22294.0	26110.5	25182.5
21			6324.0	6273.0	8426.5	8386.5	12589.5	12487.0	16817.0	16693.5	19691.0	18880.5	22386.5	22294.5		
22			6324.5	6273.5	8427.0	8387.0	12590.0	12487.5	16817.5	16694.0	19691.5	18881.0	22387.0	22295.0		
23			6325.0	6274.0	8427.5	8387.5	12590.5	12488.0	16818.0	16694.5			22387.5	22295.5		
24			6325.5	6274.5	8428.0	8388.0	12591.0	12488.5					22388.0	22296.0		
25			6326.0	6275.0	8428.5	8388.5	12591.5	12489.0	16818.5	16695.5			22388.5	22296.5		
26			6326.5	6275.5	8429.0	8389.0	12592.0	12489.5	16819.0	16696.0			22389.0	22297.0		
27			6327.0	6281.0	8429.5	8389.5	12592.5	12490.0	16819.5	16696.5			22389.5	22297.5		
28			6327.5	6281.5	8430.0	8390.0	12593.0	12490.5	16820.0	16697.0			22390.0	22298.0		
29			6328.0	6282.0	8430.5	8390.5	12593.5	12491.0	16820.5	16697.5			22390.5	22298.5		
30					8431.0	8391.0	12594.0	12491.5	16821.0	16698.0			22391.0	22299.0		
31					8431.5	8391.5	12594.5	12492.0	16821.5	16698.5			22391.5	22299.5		
32					8432.0	8392.0	12595.0	12492.5	16822.0	16699.0			22392.0	22300.0		
33					8432.5	8392.5	12595.5	12493.0	16822.5	16699.5			22392.5	22300.5		
34					8433.0	8393.0	12596.0	12493.5	16823.0	16700.0			22393.0	22301.0		
35							12596.5	12494.0	16823.5	16700.5			22393.5	22301.5		
36							12597.0	12494.5	16824.0	16701.0			22394.0	22302.0		
37							12597.5	12495.0	16824.5	16701.5			22394.5	22302.5		
38							12598.0	12495.5	16825.0	16702.0			22395.0	22303.0		
39							12598.5	12496.0	16825.5	16702.5			22395.5	22303.5		
40							12599.0	12496.5	16826.0	16703.0			22396.0	22304.0		
41							12599.5	12497.0	16826.5	16703.5			22396.5	22304.5		
42							12600.0	12497.5	16827.0	16704.0			22397.0	22305.0		
43							12600.5	12498.0	16827.5	16704.5			22397.5	22305.5		
44							12601.0	12498.5	16828.0	16705.0			22398.0	22306.0		
45							12601.5	12499.0	16828.5	16705.5			22398.5	22306.5		

Ch. no.	Paired frequencies for NBDP and data transmissions (kHz)															
	4 MHz		6 MHz		8 MHz		12 MHz		16 MHz		18/19 MHz		22 MHz		25/26 MHz	
	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship
46							12602.0	12499.5	16829.0	16706.0			22399.0	22307.0		
47							12602.5	12500.0	16829.5	16706.5			22399.5	22307.5		
48							12603.0	12500.5	16830.0	16707.0			22400.0	22308.0		
49							12603.5	12501.0	16830.5	16707.5			22400.5	22308.5		
50							12604.0	12501.5	16831.0	16708.0			22401.0	22309.0		
51							12604.5	12502.0	16831.5	16708.5			22401.5	22309.5		
52							12605.0	12502.5	16832.0	16709.0			22402.0	22310.0		
53							12605.5	12503.0	16832.5	16709.5			22402.5	22310.5		
54							12606.0	12503.5	16833.0	16710.0			22403.0	22311.0		
55							12606.5	12504.0	16833.5	16710.5			22403.5	22311.5		
56							12607.0	12504.5	16834.0	16711.0			22404.0	22312.0		
57							12607.5	12505.0	16834.5	16711.5			22404.5	22312.5		
58							12608.0	12505.5	16835.0	16712.0			22405.0	22313.0		
59							12608.5	12506.0	16835.5	16712.5			22405.5	22313.5		
60							12609.0	12506.5	16836.0	16713.0			22406.0	22314.0		
61							12609.5	12507.0	16836.5	16713.5			22406.5	22314.5		
62							12610.0	12507.5	16837.0	16714.0			22407.0	22315.0		
63							12610.5	12508.0	16837.5	16714.5			22407.5	22315.5		
64							12611.0	12508.5	16838.0	16715.0			22408.0	22316.0		
65							12611.5	12509.0	16838.5	16715.5			22408.5	22316.5		
66							12612.0	12509.5	16839.0	16716.0			22409.0	22317.0		
67							12612.5	12510.0	16839.5	16716.5			22409.5	22317.5		
68							12613.0	12510.5	16400.0	16717.0			22410.0	22318.0		
69							12613.5	12511.0	16400.5	16717.5			22410.5	22318.5		
70							12614.0	12511.5	16411.0	16718.0			22411.0	22319.0		
71							12614.5	12512.0	16841.5	16718.5			22411.5	22319.5		
72							12615.0	12512.5	16842.0	16719.0			22412.0	22320.0		
73							12615.5	12513.0	16842.5	16719.5			22412.5	22320.5		
74							12616.0	12513.5	16843.0	16720.0			22413.0	22321.0		
75							12616.5	12514.0	16843.5	16720.5			22413.5	22321.5		
76							12617.0	12514.5	16844.0	16721.0			22414.0	22322.0		
77							12617.5	12515.0	16844.5	16721.5			22414.5	22322.5		
78							12618.0	12515.5	16845.0	16722.0			22415.0	22323.0		
79							12618.5	12516.0	16845.5	16722.5			22415.5	22323.5		
80							12619.0	12516.5	16846.0	16723.0			22416.0	22324.0		
81							12619.5	12517.0	16846.5	16723.5			22416.5	22324.5		
82							12620.0	12517.5	16847.0	16724.0			22417.0	22325.0		
83							12620.5	12518.0	16847.5	16724.5			22417.5	22325.5		
84							12621.0	12518.5	16848.0	16725.0			22418.0	22326.0		
85							12621.5	12519.0	16848.5	16725.5			22418.5	22326.5		
86							12622.0	12519.5	16849.0	16726.0			22419.0	22327.0		
87									16849.5	16726.5			22419.5	22327.5		
88							12622.5	12520.5	16850.0	16727.0			22420.0	22328.0		
89							12623.0	12521.0	16850.5	16727.5			22420.5	22328.5		
90							12623.5	12521.5	16851.0	16728.0			22421.0	22329.0		

Federal Communications Commission

\$80.361

91						12624.0	12522.0	16851.5	16728.5			22421.5	22329.5	
92						12624.5	12522.5	16852.0	16729.0			22422.0	22330.0	
93						12625.0	12523.0	16852.5	16729.5			22422.5	22330.5	
94						12625.5	12523.5	16853.0	16730.0			22423.0	22331.0	
95						12626.0	12524.0	16853.5	16730.5			22423.5	22331.5	
96						12626.5	12524.5	16854.0	16731.0			22424.0	22332.0	
97						12627.0	12525.0	16854.5	16731.5			22424.5	22332.5	
98						12627.5	12525.5	16855.0	16732.0			22425.0	22333.0	
99						12628.0	12526.0	16855.5	16732.5			22425.5	22333.5	
100						12628.5	12526.5	16856.0	16733.0			22426.0	22334.0	
101						12629.0	12527.0	16856.5	16733.5			22426.5	22334.5	
102						12629.5	12527.5	16857.0	16739.0					
103						12630.0	12528.0	16857.5	16739.5					
104						12630.5	12528.5	16858.0	16740.0					
105						12631.0	12529.0	16858.5	16740.5					
106						12631.5	12529.5	16859.0	16741.0					
107						12632.0	12530.0	16859.5	16741.5					
108								16860.0	16742.0					
109								16860.5	16742.5					
110								16861.0	16743.0					
111								16861.5	16743.5					
112								16862.0	16744.0					
113								16862.5	16744.5					
114								16863.0	16745.0					
115								16863.5	16745.5					
116								16864.0	16746.0					
117								16864.5	16746.5					
118								16865.0	16747.0					
119								16865.5	16747.5					
120								16866.0	16748.0					
121								16866.5	16748.5					
122								16867.0	16749.0					
123								16867.5	16749.5					
124								16868.0	16750.0					
125								16868.5	16750.5					
126								16869.0	16751.0					
127								16869.5	16751.5					
128								16870.0	16752.0					
129								16870.5	16752.5					
130								16871.0	16753.0					
131								16871.5	16753.5					
132								16872.0	16754.0					

§ 80.363

47 CFR Ch. I (10–1–10 Edition)

(b) The following table describes the frequencies and Channel Series with F1B, J2B, or J2D emission which are assignable to ship stations for NBDP

and data transmissions with other ship stations and public coast stations. Public coast stations may receive only on these frequencies.

NON-PAIRED NBDP CHANNELS (kHz)

Channel series:								
1	4202.5	6300.5	8396.5	12560.0	16785.0	18893.0	22352.0	25193.0
2	4203.0	6301.0	8397.0	12560.5	16785.5	18893.5	22352.5	25193.5
3	4203.5	6301.5	8397.5	12561.0	16786.0	18894.0	22353.0	25194.0
4	4204.0	6302.0	8398.0	12561.5	16786.5	18894.5	22353.5	25194.5
5	4204.5	6302.5	8398.5	12562.0	16787.0	18895.0	22354.0	25195.0
6	4205.0	6303.0	8399.0	12562.5	16787.5	18895.5	22354.5	25195.5
7	4205.5	6303.5	8399.5	12563.0	16788.0	18896.0	22355.0	25196.0
8	4206.0	6304.0	8400.0	12563.5	16788.5	18896.5	22355.5	25196.5
9	4206.5	6304.5	8400.5	12564.0	16789.0	18897.0	22356.0	25197.0
10	4207.0	6305.0	8401.0	12564.5	16789.5	18897.5	22356.5	25197.5
11		6305.5	8401.5	12565.0	16790.0	18898.0	22357.0	25198.0
12		6306.0	8402.0	12565.5	16790.5		22357.5	25198.5
13		6306.5	8402.5	12566.0	16791.0		22358.0	25199.0
14		6307.0	8403.0	12566.5	16791.5		22358.5	25199.5
15		6307.5	8403.5	12567.0	16792.0		22359.0	25200.0
16		6308.0	8404.0	12567.5	16792.5		22359.5	25200.5
17		6308.5	8404.5	12568.0	16793.0		22360.0	25201.0
18		6309.0	8405.0	12568.5	16793.5		22360.5	25201.5
19		6309.5	8405.5	12569.0	16794.0		22361.0	25202.0
20		6310.0	8406.0	12569.5	16794.5		22361.5	25202.5
21		6310.5	8406.5	12570.0	16795.0		22362.0	25203.0
22		6311.0	8407.0	12570.5	16795.5		22362.5	25203.5
23		6311.5	8407.5	12571.0	16796.0		22363.0	25204.0
24			8408.0	12571.5	16796.5		22363.5	25204.5
25			8408.5	12572.0	16797.0		22364.0	25205.0
26			8409.0	12572.5	16797.5		22364.5	25205.5
27			8409.5	12573.0	16798.0		22365.0	25206.0
28			8410.0	12573.5	16798.5		22365.5	25206.5
29			8410.5	12574.0	16799.0		22366.0	25207.0
30			8411.0	12574.5	16799.5		22366.5	25207.5
31			8411.5	12575.0	16800.0		22367.0	25208.0
32			8412.0	12575.5	16800.5		22367.5	
33			8412.5	12576.0	16801.0		22368.0	
34			8413.0	12576.5	16801.5		22368.5	
35			8413.5		16802.0		22369.0	
36			8414.0		16802.5		22369.5	
37					16803.0		22370.0	
38					16803.5		22370.5	
39					16804.0		22371.0	
40							22371.5	
41							22372.0	
42							22372.5	
43							22373.0	
44							22373.5	
45							22374.0	

(c) *Distress and calling.* The frequencies 2174.5 kHz, 4177.5 kHz, 6268.0 kHz, 8376.5 kHz, 12520.0 kHz, and 16695.0 kHz may be used for NBDP and data transmissions by coast and ship stations on a simplex basis for distress and safety purposes.

(d) The frequencies in the 156–162 MHz band available for assignment to public coast stations that are contained in § 80.371(c) of this part are also available for radioprinter and data communications between ship and

coast stations using F1B, F2B, F1D, or F2D emission.

[51 FR 31213, Sept. 2, 1986, as amended at 56 FR 9890, Mar. 8, 1991; 57 FR 43407, Sept. 21, 1992; 58 FR 16504, Mar. 29, 1993; 68 FR 46969, Aug. 7, 2003]

§ 80.363 Frequencies for facsimile.

(a) The non-paired frequencies with F1C, F3C, J2C or J3C emission which are assignable to ship and public coast stations for facsimile are as follows:

(1) *Ship station frequencies.* The following frequencies are available for use

Federal Communications Commission

§ 80.367

by authorized ship stations for facsimile.

ASSIGNABLE SHIP FREQUENCIES FOR FACSIMILE (kHz)

2070.5	4154	6235	8302	12370	16551	18848	22182	25123
2072.5	4170	6259	8338	12418	16615	18868	22238	25159
2074.5	.....	.....	.....	.....	.....	.....	.....	.....
2076.5	.....	.....	.....	.....	.....	.....	.....	.....

(2) *Coast station frequencies.* The following table describes the exclusive maritime mobile HF frequency bands that are available for assignment to coast stations using 3 kHz channels for facsimile. However, any frequency in the 2000–27500 kHz bands listed in part 2 of the Commission's Rules as available for shared use by the maritime mobile service and other radio services, except for the 4000–4063 kHz and the 8100–8195 kHz bands, is available for assignment to coast stations for facsimile. Frequency assignments are subject to coordination with government users.

FREQUENCY BANDS FOR COAST FACSIMILE (kHz)

4221.0– 4351.0	16904.5–17242.0
6332.5– 6501.0	19705.0–19755.0
8438.0– 8707.0	22445.5–22696.0
12658.5–13077.0	26122.5–26145.0

(b) The frequencies in the 156–162 MHz band available for assignment to public coast stations that are contained in §80.371(c) of this part are also available for facsimile communications between ship and coast stations using F2C or F3C emission.

(c) The frequency 156.425 MHz is assigned by rule to private coast stations and ship stations in Alaska for ship-to-shore and ship-to-ship facsimile transmissions using F2C or F3C emissions.

[51 FR 31213, Sept. 2, 1986, as amended at 54 FR 40059, Sept. 29, 1989; 56 FR 9893, Mar. 8, 1991; 57 FR 43407, Sept. 21, 1992; 62 FR 40307, July 28, 1997; 68 FR 46970, Aug. 7, 2003]

RADIOTELEPHONY

§80.365 Scope.

The following sections describe the carrier frequencies and general conditions of use for the following types of radiotelephony:

- Distress, urgency, safety, call and reply.
- Working.
- Public.
- Private.

§80.367 General uses—radiotelephony.

(a) Ship stations communicating with foreign coast stations may operate on any frequency designated by that coast station.

(b) Radiotelephony stations communicating with a Government station may transmit on a Government frequency when authorized to do so by the Government station or agency if the emission, bandwidth and frequency tolerance of the maritime station are within the same limits as the Government station.

(c) Frequencies assigned to Government radio stations are assignable to non-Government maritime stations for radiotelephony communications with other non-Government stations in connection with activities performed in coordination with or on behalf of the Government.

(d) Frequencies in the 2000–27500 kHz band will be authorized only to ship stations that in addition are authorized to use frequencies in the 156–162 MHz band.

(e) Frequencies in the 2000–2850 kHz band will be authorized to private coast stations that in addition are authorized to use frequencies in the 156–162 MHz band.

(f) Ship and coast stations authorized to use frequencies in both the 2000–27500 kHz and 156–162 MHz bands must not use frequencies in the 2000–27500 kHz band for communications with any other station which is within the VHF service range.

(g) Coast and ship station radiotelephone working frequencies are available for DSC general purpose calling under the provisions of §80.207(a).

§ 80.369

(h) Digital selective calling techniques are not authorized on the frequencies 2182 kHz or 156.800 MHz.

§ 80.369 Distress, urgency, safety, call and reply frequencies.

This section describes the general uses and frequencies assignable to maritime stations for distress, urgency, safety, call and reply radiotelephony communications.

(a) In the 1605–3500 kHz band, the frequency 2182 is an international radiotelephony distress, urgency and safety frequency for ship stations, public and private coast stations, and survival craft stations. It is also used for call and reply by ship stations on a primary basis and by public coast stations on a secondary basis. The carrier frequency 2191 kHz may be used as a supplementary calling frequency in areas of heavy usage of 2182 kHz. All stations must use J3E emission when operating on 2182 and 2191 kHz, except that:

(1) H3E emission may be used on 2182 kHz for communications with foreign coast and ship stations; or,

(2) A3E emission may be used on 2182 kHz by portable survival craft stations, or transmitters authorized for use prior to January 1, 1972. See § 80.203(c).

(b) The frequencies 4125.0 kHz, 6215 kHz, 8291 kHz, 12290 kHz, and 16420 kHz may be used by coast and ship stations on a simplex basis for distress and safety communications. The frequency 4125.0 kHz may also be used for distress and safety communications between aircraft and maritime mobile stations.

(c) The frequency 5167.5 kHz is available to any station for emergency communications in the State of Alaska. Peak envelope power of stations operating on this frequency must not exceed 150 watts. This frequency may also be used by Alaska private fixed stations for calling and listening, but only for establishing communication.

(d) In the 4000–27500 kHz band, the following coast frequencies are available for assignment to public coast stations for call and reply communications. The paired ship frequencies are available for use by authorized ship stations.

47 CFR Ch. I (10–1–10 Edition)

CALL AND REPLY FREQUENCY PAIRS IN THE 4000–27500 KHz

Carrier Frequencies (kHz)		
Channel No.	Ship transmit	Coast transmit
421	^{1,2,3} 4125	¹ 4417
606	^{2,3} 6215	¹ 6516
821	8255	8779
1221	³ 12290	13137
1621	³ 16420	17302
1806	18795	19770
2221	22060	22756
2510	25097	26172

¹The frequencies 4125 kHz, 4417 kHz, and 6516 kHz are also available on a simplex basis for private communications, see § 80.373(c) of this part.

²The frequencies of 4125 kHz and 6215 kHz are also available on a simplex basis to ship and coast stations for call and reply, provided that the peak envelope power does not exceed 1 kW.

³The frequencies 4125 kHz, 6215 kHz, 8291 kHz, 12290 kHz, and 16420 kHz are also available on a simplex basis for distress and safety traffic, see paragraph (b) of this section.

(e) In the 120–156 MHz band the following frequencies are used as indicated:

(1) The frequencies 121.500 MHz and 123.100 MHz using A3E emission are available for scene of action search and rescue operations to ship, coast and aircraft stations. Communications in support of search and rescue operations must employ the frequency 121.500 MHz only when communications on 123.100 MHz or other VHF frequencies is not practicable. Ship, coast and aircraft stations engaged in such communications on 121.500 MHz must shift to 123.100 MHz as soon as possible.

(2) The frequency 156.525 MHz is available for intership, ship and coast general purpose, distress and safety DSC calls.

(3) The frequency 156.800 MHz is the international radiotelephone distress, urgency, safety, call and reply frequency for ship, public and private coast stations. Stations operating on 156.800 MHz must be able to transmit and receive using G3E emission.

(4) The frequency 156.450 MHz (channel 9) is available for intership, ship and coast station general purpose calling by noncommercial vessels, such as recreational boats. Distress, urgency and safety calls should initially be made on 156.800 MHz (channel 16) or, if

Federal Communications Commission

§ 80.371

equipped with DSC, on 156.525 MHz (channel 70).

[51 FR 31213, Sept. 2, 1986, as amended at 52 FR 35245, Sept. 18, 1987; 54 FR 49995, Dec. 4, 1989; 56 FR 9893, Mar. 8, 1991; 57 FR 19552, May 7, 1992]

§ 80.371 Public correspondence frequencies.

This section describes the radiotelephony working frequencies assignable to ship and public coast stations.

(a) *Working frequencies in the 2000–4000 kHz band.* The following table describes the working carrier frequency pairs in the 2000–4000 kHz band.

Working frequency pairs in the 2000–4000 kHz band		
Region	Carrier frequency (kHz)	
	Ship transmit	Coast transmit
East Coast:	2031.5	2490.0
	2118.0	¹ 12514.0
	2126.0	2522.0
	2142.0	2538.0
	2166.0	2558.0
	2198.0	2590.0
	2366.0	2450.0
	2382.0	⁵ 2482.0
	2390.0	2566.0
	2400.0	2400.0
	2406.0	2442.0
	2406.0	⁴ 2506.0
	2003.0	2450.0
	2009.0	2442.0
West Coast:	2009.0	2566.0
	2031.5	2566.0
	2126.0	2522.0
	2206.0	2598.0
	2382.0	2466.0
	2406.0	2506.0
	2430.0	⁵ 2482.0
	2009.0	2466.0
	2134.0	2530.0
	2142.0	2538.0
Gulf Coast:	¹ 2158.0	¹ 2550.0
	2166.0	2558.0
	2206.0	2598.0
	2366.0	2450.0
	2382.0	⁵ 2482.0
	2430.0	2572.0
	2458.0	2506.0
	2118.0	2514.0
	2158.0	2550.0
	2206.0	2582.0
Alaska	2131.0	⁵ 2309.0
	2134.0	2312.0
	2237.0	2397.0
	2240.0	2400.0
Hawaii	2134.0	2530.0
Caribbean:	2009.0	2506.0

Working frequency pairs in the 2000–4000 kHz band

Region	Carrier frequency (kHz)	
	Ship transmit	Coast transmit
Guam	³ 2086.0	2585.0
	2134.0	2530.0
	2009.0	2506.0

¹ Unlimited hours of use from December 15 to April 1 and day only from April 1 to December 15. Harmful interference must not be caused to any station in the Great Lakes region.

² In the Great Lakes region 2206 kHz is not available for transmission to U.S. ships except in the case of distress. U.S. coast stations in the Great Lakes area may use 2514, 2550 and 2582 kHz on a shared basis with coast stations of Canada. Except in the case of distress, the frequency 2550 kHz must not be used for transmission to ship stations of Canada since the associated ship station transmit frequency 2158 kHz is not available to Canadian ship stations for transmission and 2582 kHz must not be used for public correspondence transmissions to U.S. ship stations since the associated ship transmit frequency 2206 kHz is not available to U.S. ship stations for transmissions except in the case of distress.

³ Limited to a peak envelope power of 150 watts.

⁴ Harmful interference must not be caused to any coast station in the Caribbean region.

⁵ But see section 80.373(c)(3) of this chapter.

(b) *Working frequencies in the 4000–27500 kHz band.* This paragraph describes the working carrier frequencies in the 4000–27500 kHz band. With respect to frequencies that are assignable in more than one geographical area, once the frequency is assigned to one licensee, any subsequent license will be authorized on a secondary, non-interference basis with respect to the incumbent licensee's existing operation. If the first licensee later seeks authorization to operate in an additional geographic area, such authorization will be on a secondary, non-interference basis to other co-channel licensees.

(1) The following table specifies the carrier frequencies available for assignment to public coast stations. The paired ship frequencies are available for use by authorized ship stations. The specific frequency assignment available to public coast stations for a particular geographic area is indicated by an “x” under the appropriate column. The allotment areas are in accordance with the “Standard Defined Areas” as identified in the International Radio Regulations, Appendix 25 Planning System, and indicated in the preface to the International Frequency List (IFL).

WORKING CARRIER FREQUENCY PAIRS IN THE 4000–27500 KHz BAND

Channel	Ship transmit	Coast transmit	USA-E	USA-W	USA-S	USA-C	VIR	HWA	ALS	PTR	GUM
401	4065	4357	x	x	x	x	.....	.....	.....	.....	.....
403	4071	4363	x	x	x	x	.....	x	.....	x	.....

WORKING CARRIER FREQUENCY PAIRS IN THE 4000–27500 KHz BAND—Continued

Channel	Ship transmit	Coast transmit	USA-E	USA-W	USA-S	USA-C	VIR	HWA	ALS	PTR	GUM
404	4074	4366	x	x	.....	x	.....	.....	x	.....	.....
405	4077	4369	x	x	x	x	.....	x	x	.....	.....
409	4089	4381	x	x	x	x	.....	.....	.....	.....	.....
410	4092	4384	x	.....	.....	.....	.....	.....	.....	.....	x
411	4095	4387	x	x	.....	x	.....	.....	.....	.....	.....
412	4098	4390	x	x	x	.....	.....	.....	.....	.....	.....
414	4104	4396	x	.....	x	.....	.....	.....	x	x	.....
416	4110	4402	x	x	.....	x	.....	.....	x	.....	.....
417	4113	4405	x	x	x	x	.....	.....	.....	.....	.....
418	4116	4408	.....	.....	.....	x	.....	x	.....	.....	.....
419	4119	4411	.....	x	x	.....	.....	x	.....	x	x
422	4128	4420	x	x	.....	.....	.....	x	.....	.....	.....
423	4131	4423	x	x	x	x	.....	x	.....	.....	.....
424	4134	4426	.....	.....	.....	x	.....	.....	.....	.....	.....
427	4143	4435	x	x	x	x	x	x	x	.....	.....
428	4060	4351	.....	.....	x	.....	.....	.....	.....	.....	.....
604	6209	6510	x	x	x	x	.....	x	x	x	x
605	6212	6513	.....	.....	.....	x	.....	.....	.....	.....	.....
607	6218	6519	.....	.....	x	.....	.....	.....	.....	.....	.....
802	8198	8722	x	.....	x	.....	.....	x	x	.....	.....
803	8201	8725	.....	.....	.....	x	.....	.....	.....	.....	.....
804	8204	8728	x	x	x	.....	.....	.....	.....	.....	.....
805	8207	8731	x	x	x	.....	.....	.....	.....	.....	.....
807	8213	8737	.....	.....	.....	x	.....	.....	.....	.....	.....
808	8216	8740	x	x	.....	.....	.....	x	x	.....	x
809	8219	8743	x	x	.....	.....	.....	.....	.....	.....	.....
810	8222	8746	x	x	x	.....	.....	.....	.....	.....	.....
811	8225	8749	x	x	x	.....	.....	.....	.....	.....	.....
814	8234	8758	x	x	x	x	.....	x	x	.....	.....
815	8237	8761	x	x	x	.....	.....	.....	.....	.....	.....
817	8243	8767	.....	.....	.....	x	.....	.....	.....	.....	.....
819	8249	8773	.....	.....	.....	x	.....	.....	.....	.....	.....
822	8258	8782	x	x	x	.....	.....	.....	.....	.....	.....
824	8264	8788	x	x	x	.....	.....	.....	.....	.....	.....
825	8267	8791	x	x	x	.....	.....	.....	.....	.....	.....
826	8270	8794	x	.....	.....	x	.....	.....	.....	.....	x
829	8279	8803	x	x	x	.....	.....	.....	.....	x	.....
830	8282	8806	.....	.....	x	.....	.....	.....	.....	x	.....
831	8285	8809	.....	x	x	.....	.....	.....	.....	x	.....
836	8113	8713	.....	.....	x	.....	.....	.....	.....	.....	.....
837	8128	8716	.....	.....	x	.....	.....	.....	.....	.....	.....
1201	12230	13077	x	x	x	.....	.....	.....	.....	.....	.....
1202	12233	13080	x	x	x	x	.....	.....	.....	.....	.....
1203	12236	13083	x	x	x	x	.....	x	x	.....	.....
1206	12245	13092	x	x	x	.....	.....	.....	.....	.....	.....
1208	12251	13098	x	.....	x	.....	.....	.....	.....	.....	.....
1209	12254	13101	x	x	x	.....	.....	.....	x	.....	.....
1210	12257	13104	x	x	x	.....	.....	.....	.....	.....	x
1211	12260	13107	x	x	x	x	.....	.....	x	.....	.....
1212	12263	13110	x	.....	x	.....	.....	x	x	x	.....
1215	12272	13119	.....	x	x	.....	.....	.....	.....	x	.....
1217	12278	13125	.....	.....	.....	x	.....	.....	.....	.....	.....
1222	12293	13140	.....	.....	.....	.....	.....	x	.....	.....	.....
1223	12296	13143	x	x	x	.....	.....	.....	.....	.....	x
1225	12302	13149	x	.....	x	.....	.....	.....	.....	.....	.....
1226	12305	13152	x	x	x	.....	.....	.....	.....	.....	.....
1228	12311	13158	x	x	.....	x	.....	.....	.....	.....	.....
1229	12314	13161	.....	x	.....	.....	.....	.....	.....	.....	.....
1230	12317	13164	x	x	x	.....	.....	x	.....	.....	.....
1233	12326	13173	.....	.....	x	.....	.....	.....	.....	.....	.....
1234	12329	13176	.....	x	x	.....	.....	x	x	.....	.....
1235	12232	13179	.....	.....	x	.....	.....	.....	.....	.....	.....
1236	12335	13182	.....	.....	x	.....	.....	.....	.....	.....	.....
1237	12338	13185	x	.....	x	x	x	.....	.....	.....	.....
1601	16360	17242	x	.....	x	.....	.....	x	x	.....	.....
1602	16363	17245	x	x	x	.....	.....	.....	.....	.....	.....
1603	16366	17248	x	x	x	.....	.....	.....	x	.....	.....
1605	16372	17254	x	x	.....	.....	.....	.....	.....	.....	.....
1607	16378	17260	x	x	x	.....	.....	.....	x	.....	.....
1609	16384	17266	x	x	x	.....	.....	.....	.....	.....	.....
1610	16387	17269	x	x	x	.....	.....	.....	.....	.....	.....

WORKING CARRIER FREQUENCY PAIRS IN THE 4000–27500 KHz BAND—Continued

Channel	Ship transmit	Coast transmit	USA-E	USA-W	USA-S	USA-C	VIR	HWA	ALS	PTR	GUM
1611	16390	17272	x	x	x	.....	.....	.....	.....	.....	.....
1616	16405	17287	x	x	x	.....	.....	x	x	.....	.....
1620	16417	17299	x	.....	.....	x	.....	.....	.....	.....	.....
1624	16429	17311	x	x	x	.....	.....	.....	.....	.....	.....
1626	16435	17317	x	.....	.....	.....	.....	.....	.....	.....	.....
1631	16450	17332	x	.....	.....	.....	.....	.....	.....	.....	.....
1632	16453	17335	x	x	x	.....	.....	.....	x	.....	.....
1641	16480	17362	x	x	x	.....	.....	.....	.....	.....	.....
1642	16483	17365	x	x	x	x	x	x	x	x	.....
1643	16486	17368	.....	.....	x	.....	.....	.....	.....	.....	.....
1644	16489	17371	x	x	x	x	.....	x	x	.....	.....
1645	16492	17374	.....	.....	x	.....	.....	.....	.....	.....	.....
1646	16495	17377	.....	x	.....	.....	.....	.....	.....	.....	.....
1647	16498	17380	x	x	x	x	.....	.....	x	.....	.....
1648	16501	17383	.....	x	.....	x	x	x	x	x	.....
1801	18780	19755	x	x	x	x	x	x	x	x	.....
1802	18783	19758	x	.....	x	x	x	.....	.....	x	.....
1803	18786	19761	x	x	.....	x	x	x	x	x	.....
1804	18789	19764	.....	x	x	.....	.....	x	x	.....	.....
1805	18792	19767	.....	x	.....	.....	.....	.....	x	.....	.....
1807	18798	19773	.....	.....	x	.....	.....	.....	.....	.....	.....
1808	18801	19776	x	x	x	x	x	x	x	x	.....
2201	22000	22696	x	x	x	.....	.....	.....	.....	.....	x
2205	22012	22708	x	x	x	.....	.....	.....	.....	.....	.....
2210	22027	22723	x	.....	.....	.....	.....	.....	.....	.....	.....
2214	22039	22735	x	x	x	.....	.....	.....	.....	.....	.....
2215	22042	22738	x	x	x	.....	.....	.....	.....	.....	.....
2216	22045	22741	x	.....	x	.....	.....	.....	.....	.....	x
2222	22063	22759	x	.....	.....	.....	.....	.....	.....	.....	.....
2223	22066	22762	x	x	x	.....	.....	x	x	x	.....
2227	22078	22774	x	x	x	.....	.....	.....	.....	.....	.....
2228	22081	22777	x	x	.....	.....	.....	.....	.....	.....	.....
2231	22090	22786	x	x	x	.....	.....	.....	x	.....	.....
2236	22105	22801	x	x	.....	.....	.....	.....	.....	.....	.....
2237	22108	22804	x	x	x	.....	.....	.....	.....	.....	.....
2241	22120	22816	x	x	x	x	x	x	x	x	.....
2242	22123	22819	.....	.....	x	.....	.....	.....	.....	.....	.....
2243	22126	22822	x	x	x	x	x	x	x	x	.....
2244	22129	22825	.....	x	.....	.....	.....	x	x	.....	.....
2245	22132	22828	.....	x	x	.....	.....	x	x	.....	.....
2246	22135	22831	.....	.....	x	.....	.....	.....	.....	.....	.....
2247	22138	22834	x	x	x	x	x	x	x	.....	.....
2501	25070	26145	x	x	x	x	.....	x	x	.....	.....
2502	25073	26148	x	x	x	x	x	x	x	x	.....
2503	25076	26151	.....	.....	x	.....	.....	.....	.....	.....	.....
2504	25079	26154	x	x	x	x	x	x	x	x	.....

(2) The following table specifies the non-paired carrier frequencies that are available for assignment to public coast stations for simplex operations. These frequencies are available for use by authorized ship stations for transmissions to coast stations (simplex operations). Assignments on these frequencies must accept interference. They are shared with government users and are considered “common use” frequencies under the international Radio Regulations. They cannot be notified for inclusion in the Master International Frequency Register, which provides stations with interference protection, but may be listed in the inter-

national List of Coast Stations. (See Radio Regulation No. 1220 and Recommendation 304.)

PUBLIC CORRESPONDENCE SIMPLEX

[Non-paired radiotelephony frequencies in the 4000–27500 kHz Band ¹ Carrier Frequencies (kHz)]

16537 ²	18825	22174	25100
16540	18828	22177	25103
	18831	.....	25106
	18834	.....	25109
	18837	.....	25112

¹ Coast stations limited to a maximum transmitter power of 1 kW (PEP).

² The alternative carrier frequency 16537 kHz may be used by ship stations and coast stations for calling on a simplex basis, provided that the peak envelope power does not exceed 1 kW.

§ 80.371

47 CFR Ch. I (10–1–10 Edition)

(c) *Working frequencies in the marine VHF 156–162 MHz band.* (1)(i) The frequency pairs listed in this paragraph are available for assignment to public coast stations for communications with ship stations and units on land.

WORKING CARRIER FREQUENCY PAIRS IN THE 156–162 MHz BAND ¹

Channel designator	Carrier Frequency (MHz)	
	Ship transmit	Coast transmit
24	157.200	161.800
84	157.225	161.825
25 ⁵	157.250	161.850
85 ²	157.275	161.875
26	157.300	161.900
86	157.325	161.925
27	157.350	161.950
87 ³	157.375	161.975
28	157.400	162.000
88 ⁴	157.425	162.025

¹For special assignment of frequencies in this band in certain areas of Washington State, the Great Lakes and the east coast of the United States pursuant to arrangements between the United States and Canada, see subpart B of this part.

²The frequency pair 157.275/161.875 MHz is available on a primary basis to ship and public coast stations. In Alaska it is also available on a secondary basis to private mobile repeater stations.

³The frequency 161.975 MHz is available only for Automatic Identification System communications. No license authorizing a site-based VHF Public Coast Station or a Private Land Mobile Radio Station to operate on the frequency 161.975 MHz will be renewed unless the license is or has been modified to remove frequency 161.975 MHz as an authorized frequency. Licenses authorizing geographic stations to operate on frequency 161.975 MHz will be modified on March 2, 2011 to replace the frequency with either frequency pair 157.225/161.825 MHz (VPCSAs 10–15, 23–30, 33–34, 36–39, and 41–42) or frequency pair 157.275/161.875 MHz (VPCSAs 16–22, 31–32, 35, and 40), unless an application to so modify the license is granted before that date.

⁴The frequency 162.025 MHz is available only for Automatic Identification System communications. One hundred twenty kilometers (75 miles) from the United States/Canada border, the frequency 157.425 MHz is available for intership and commercial communications. Outside the Puget Sound area and its approaches and the Great Lakes, 157.425 MHz is available for communications between commercial fishing vessels and associated aircraft while engaged in commercial fishing activities.

⁵In VPCSAs 10–42, the working carrier frequency pair 157.250/161.850 MHz (Channel 25) is not available for assignment under part 80.

(ii) Service areas in the marine VHF 156–162 MHz band are VHF Public Coast Service Areas (VPCSAs). As listed in the table in this paragraph, VPCSAs are based on, and composed of one or more of, the U.S. Department of Commerce's 172 Economic Areas (EAs). See 60 FR 13114 (March 10, 1995). In addition, the Commission shall treat Guam and the Northern Mariana Islands, Puerto Rico and the United States Virgin Islands, American Samoa, and the Gulf of Mexico as EA-like areas, and has assigned them EA numbers 173–176, respectively. Maps of the EAs and VPCSAs are available for public inspection and copying at the FCC Public Reference Room, Room CY-A257, 445 12th Street, SW., Washington, DC 20554, 1-888-225-5322. In addition to the EAs listed in the table in this paragraph, each VPCSA also includes the adjacent waters under the jurisdiction of the United States. In VPCSAs 10–42, the working carrier frequency pair 157.250 MHz/161.850 MHz (Channel 25) is not available for assignment under part 80.

VHF Public coast station areas (VPCSAs)	
VPCSAs	EAs
1 (Northern Atlantic)	1–5, 10
2 (Mid-Atlantic)	9, 11–23, 25, 42, 46
3 (Southern Atlantic)	24, 26–34, 37, 38, 40, 41, 174
4 (Mississippi River)	34, 36, 39, 43–45, 47–53, 67–107, 113, 116–120, 122–125, 127, 130–134, 176
5 (Great Lakes)	6–8, 54–66, 108, 109
6 (Southern Pacific)	160–165
7 (Northern Pacific)	147, 166–170
8 (Hawaii)	172, 173, 175
9 (Alaska)	171
10 (Grand Forks)	110
11 (Minot)	111
12 (Bismarck)	112
13 (Aberdeen)	114
14 (Rapid City)	115
15 (North Platte)	121
16 (Western Oklahoma)	126
17 (Abilene)	128
18 (San Angelo)	129
19 (Odessa-Midland)	135
20 (Hobbs)	136
21 (Lubbock)	137
22 (Amarillo)	138
23 (Santa Fe)	139
24 (Pueblo)	140

VHF Public coast station areas (VPCSA's)	
VPCSA's	EAs
25 (Denver-Boulder-Greeley)	141
26 (Scottsbluff)	142
27 (Casper)	143
28 (Billings)	144
29 (Great Falls)	145
30 (Missoula)	146
31 (Idaho Falls)	148
32 (Twin Falls)	149
33 (Boise City)	150
34 (Reno)	151
35 (Salt Lake City-Ogden)	152
36 (Las Vegas)	153
37 (Flagstaff)	154
38 (Farmington)	155
39 (Albuquerque)	156
40 (El Paso)	157
41 (Phoenix-Mesa)	158
42 (Tucson)	159

(iii) Subject to paragraph (c)(3) of this section, each licensee may also operate on 12.5 kHz offset frequencies in areas where the licensee is authorized on both frequencies adjacent to the offset frequency, and in areas where the licensee on the other side of the offset frequency consents to the licensee's use of the adjacent offset frequency. Coordination with Canada is required for offset operations under any circumstance in which operations on either adjoining 25 kHz channel would require such coordination. See § 80.57 of this part.

(2) Any recovered channel pairs will revert automatically to the holder of the VPCSA license within which such channels are included, except the channel pairs listed in the table in paragraph (c)(1)(i) of this section. Those channel pairs, and any channel pairs recovered where there is no VPCSA licensee, will be retained by the Commission for future licensing.

(3) VPCSA licensees may not operate on Channel 228B (162.0125 MHz), which is available for use in the Coast Guard's Ports and Waterways Safety System (PAWSS). In addition, VPCSA licensees may not operate on Channel AIS 1 (161.975 MHz) or Channel AIS 2 (162.025 MHz), which are designated exclusively for Automatic Identification Systems (AIS), except to receive AIS communications to the same extent, and subject to the same limitations, as other shore stations participating in AIS. See note 3 to the table in paragraph (c)(1) of this section regarding

use of Channel AIS 1 by VPCSA licensees in VPCSA's 10-42.

(4) Subject to the requirements of § 1.924 of this chapter and § 80.21, each VPCSA licensee may place stations anywhere within its region without obtaining prior Commission approval provided:

(i) It provides to co-channel coast station incumbent licensees, and incumbent Private Land Mobile Radio licensees authorized under part 90 of this chapter on a primary basis, protection as defined in subpart P of this part. VPCSA licensees that share a common border may either distribute the available frequencies upon mutual agreement or request that the Commission assign frequencies along the common border.

(ii) The locations and/or technical parameters of the transmitters are such that individual coordination of the channel assignment(s) with a foreign administration, under applicable international agreements and rules in this part, is not required.

(iii) For any construction or alteration that would exceed the requirements of § 17.7 of this chapter, licensees must notify the appropriate Regional Office of the Federal Aviation Administration (FAA Form 7460-1) and file a request for antenna height clearance and obstruction marking and lighting specifications (FCC Form 854) with the FCC, Attn: Information Processing Branch, 1270 Fairfield Rd., Gettysburg, PA 17325-7245.

§ 80.373

47 CFR Ch. I (10–1–10 Edition)

(iv) The transmitters must not have a significant environmental effect as defined by §§1.1301 through 1.1319 of this chapter.

(d) *Working frequencies in the Mississippi River System.* The Mississippi River System includes the Mississippi River and connecting navigable waters other than the Great Lakes. The following simplex frequencies are available for assignment to public coast stations serving the Mississippi River System for radiotelephony communications. These simplex frequencies also are available for use by authorized ship stations within communication service range, whether or not the ship is operating within the confines of the Mississippi River System.

MISSISSIPPI RIVER SYSTEM WORKING FREQUENCIES; CARRIER FREQUENCIES (kHz)

2086 ¹	4065	6209	8201	12362	16543
2782	4089	6212	8213	12365	16546
	4116	6510	8725		
	4408	6513	8737		

¹ Limited to a maximum transmitter output of 150 watts (PEP).

(e) *Canada/U.S.A. channeling arrangement frequencies.* The VHF frequencies assignable to ship and coast stations in the State of Washington and their usage limitations pursuant to the Canada/U.S.A. channeling arrangement are described in subpart B of this part.

[51 FR 31213, Sept. 2, 1986]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 80.371, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

§ 80.373 Private communications frequencies.

This section describes the carrier frequencies assignable for ship-to-ship and ship-to-coast private communications.

(a) *Special requirements for private coast stations.* Assignment to private coast stations of radiotelephony frequencies in the 2000–27500 kHz band are subject to the following:

(1) Private coast stations must use J3E emission.

(2) On 2182 kHz, private coast stations must be capable of receiving J3E and H3E emissions.

(3) Except in the Mississippi River System and Great Lakes, private coast

stations serving lakes or rivers are not authorized on the 2000–2850 kHz band.

(4) Private coast stations may use DSC for calling on their assigned frequencies in the 2000–27500 kHz band and on those frequencies in the 156–162 MHz band which are allocated for maritime control, commercial and non-commercial communications.

(b) *Frequencies in the 2000–27500 kHz band for intership safety and other communications.* This paragraph describes the geographic areas of operation and the frequencies and liminations in the band available for assignment for intership safety and operational simplex radiotelephone communications.

(1) *Frequencies available.*

Carrier frequency (kHz)	Geographic area
2003.0	Great Lakes only.
2082.5 ^{1,2}	All areas.
2093.0 ¹	All areas.
2142.0	Pacific coast areas south of 42 degrees north on a day basis only.
2203.0 ²	Gulf of Mexico.
2214.0 ¹	All areas.
2638.0 ¹	All areas.
2670.0	All areas.
2738.0 ¹	All areas except the Great Lakes.
2830.0	Gulf of Mexico only.

¹ Limited to a peak envelope power of 150 watts.

² Available on a secondary basis for intership communications by ships involved in non-commercial fishing.

(2) Except for 2093.0 kHz and 2214.0 kHz the frequencies shown in paragraph (b)(1) of this section are authorized primarily for intership safety communications in the indicated geographic area.

(3) Except for the frequencies 2093.0 kHz, 2214.0 Khz and 2670.0 kHz the frequencies shown in paragraph (b)(1) of this section may be used on a non-interference basis to safety communications, for operational communications and in the case of commercial transport ships and ships of municipal and state governments, for business communications.

(4) Ship stations may communicate with government coast stations on 2003.0 kHz about passage of vessels. Interference must not be caused to communications on the St. Lawrence Seaway and on the St. Mary's River.

(5) Ship stations may use 2670.0 kHz for communications with coast and ship stations of the U.S. Coast Guard. When a ship is not equipped to transmit on 2670.0 kHz or in the band 156–162

MHz the frequency 2003.0 kHz may be used on the Great Lakes for communications must not cause harmful interference to intership safety, operational and business communications.

(6) Navigational communications between ships and private coast stations may be exchanged on 2738.0 kHz and 2830.0 kHz. The frequencies 2214.0 kHz, 2738.0 kHz and 2830.0 kHz are assignable to private coast stations upon a showing that they need to communicate with commercial transport or Government ships. Private coast station applicants must show that public coast stations do not provide the required communications and harmful interference will not be caused to the intership use of these frequencies. The transmitter power must not exceed 150 watts. If 2214.0 kHz is authorized for ships, intership communication is also authorized. The geographic limitations to the frequencies 2738.0 kHz and 2830.0 kHz do not prohibit intership communication of less than 320 km (200 statute miles) when only one of the ship

stations is within a permitted use geographic area.

(7) Private aircraft stations may communicate with ship stations on 2738.0 kHz and 2830.0 kHz if:

(i) The communications are limited to business or operational needs of the vessel while it is engaged in commercial fishing activities in the open sea or adjacent waters;

(ii) Harmful interference must not be caused to intership communications;

(iii) The maximum output power used for such communication must not exceed 25 watts;

(c) *Frequencies in the 2000–27500 kHz bands for business and operational communications.* (1) The following simplex frequencies in the 2000–27500 kHz band are available for assignment to private coast stations for business and operational radiotelephone communications. These simplex frequencies also are available for use by authorized ship stations for business and operational radiotelephone communications.

BUSINESS AND OPERATIONAL FREQUENCIES IN THE 2000–27500 KHz BAND; CARRIER FREQUENCIES (kHz)

2065.0 ^{1,3}	4146	6224	8294	12353	16528	18840	22159	25115
2079.0 ^{1,3}	4149	6227	8297	12356	16531	18843	22162	25118
2096.5 ¹	4125 ²	6230	.....	12359 ⁶	16534	.....	22165	.....
3023.0 ⁴	4417 ⁵	6516	.....	.....	.....	.....	22168	.....
	5680 ⁴	.....	.....	.....	.....	.....	22171	.....

¹ Limited to peak envelope power of 150 watts.

² The frequency 4125 kHz is also available for distress and safety, and calling and reply, see § 80.369 (b) and (d) of this part.

³ The frequencies 2065.0 kHz and 2079.0 kHz must be coordinated with Canada.

⁴ The frequencies 3023.0 kHz and 5680.0 kHz are available to private coast stations licensed to state and local governments and any scene-of-action ships for the purpose of search and rescue scene-of-action coordination including communications with any scene-of-action aircraft.

⁵ The frequency 6516 kHz is limited to daytime operations. The frequencies 4417 kHz and 6516 kHz are also available for calling and reply, see § 80.369(d) of this part.

⁶ The alternative carrier frequency 12359 kHz may be used by ship stations and coast stations for calling on a simplex basis, provided that the peak envelope power does not exceed 1 kW.

(2) Assignment of these frequencies is subject to the following general limitations:

(i) These frequencies are shared and are not available for the exclusive use of any station. No more than one frequency from each of the frequency bands will be authorized to a private station without justification;

(ii) The emissions must be J3E or J2D except that when DSC is used the emission must be F1B or J2B; and

(iii) Maximum transmitter output power is limited to 1 kW except as noted.

(3) In addition to the frequencies shown in paragraph (c)(1) of this section, the following coast transmit frequencies listed in the table in § 80.371(a) of this chapter are available for assignment to private coast stations and authorized ship stations for simplex business and operational radiotelephone communications: in the East Coast, West Coast, and Gulf Coast regions, 2482 kHz; in the Alaska region, 2309 kHz. These frequencies shall not be assigned to public coast stations before July 25, 2002. After that date, only the above frequencies in the above regions that have been assigned to at least one

private coast station shall continue to be available for assignment to private coast stations. If, by that date, in any of the above regions, any of the above frequencies has not been assigned to a private coast station, that frequency in that region shall be available for assignment only to public coast stations.

(d) *Radioprinter frequencies.* (1) The following table describes the bands available for radioprinter simplex communications between ship and private coast stations:

FREQUENCY BANDS (kHz)

2107–2170	4750–4850
2194–2495	5060–5450
2505–2850	5700–5950 ¹
3155–3400	7300–8100 ¹
4438–4650	

¹After April 1, 2007, use of the sub-bands 5900–5950 kHz and 7300–7350 kHz shall be on the condition that harmful interference is not caused to HF broadcasting.

(2) Ship stations may conduct radioprinter communications with private coast stations on frequencies within these bands which are assigned to their associated private coast stations;

(3) Any alphanumeric code may be used; and

(4) The bandwidth of radioprinter communications on frequencies within these bands must not exceed 300 Hz.

(e) *Frequencies in the 2000–27500 kHz band for medical advisory communications.* (1) Private coast stations may be authorized to use any frequencies within the 2030–27500 kHz band that are allocated to Government and non-Government fixed or fixed and mobile radio services shown in the Commission's Table of Frequency Allocations contained in §2.106 of this chapter for communications with ship stations to provide medical treatment information or advice. Assignment of these frequencies is subject to the following limitations:

(2) No protection is provided from harmful interference caused by foreign stations; and

(3) A private coast station must cease operations on a frequency that causes harmful interference to a foreign station.

(f) *Frequencies in the 156–162 MHz band.* The following tables describe the carrier frequencies available in the 156–162 MHz band for radiotelephone communications between ship and private coast stations. (Note: the letter “A” following the channel designator indicates simplex operation on a channel designated internationally as a duplex channel.)

FREQUENCIES IN THE 156–162 MHz BAND

Channel designator	Carrier frequency (MHz) ship transmit	Carrier frequency (MHz) coast transmit	Points of communication (intership and between coast and ship unless otherwise indicated)
Port Operations			
01A ¹	156.050	156.050	
63A ¹	156.175	156.175	
05A ²	156.250	156.250	
65A	156.275	156.275	
66A	156.325	156.325	
12 ³	156.600	156.600	
73	156.675	156.675	
14 ³	156.700	156.700	
74	156.725	156.725	
75 ¹⁸	156.775	156.775	
76 ¹⁸	156.825	156.825	
77 ⁴	156.875	.....	Intership only.
20A ¹²	157.000	.....	Intership only.
Navigational (Bridge-to-Bridge)⁵			
13 ⁶	156.650	156.650	
67 ⁷	156.375	156.375	
Commercial			
01A ¹	156.050	156.050	

Federal Communications Commission

§ 80.373

FREQUENCIES IN THE 156–162 MHz BAND—Continued

Channel designator	Carrier frequency (MHz) ship transmit	Carrier frequency (MHz) coast transmit	Points of communication (intership and between coast and ship unless otherwise indicated)
63A ¹	156.175	156.175	Intership only. Do.
07A	156.350	156.350	
67 ⁷	156.375	.....
08	156.400	.....
09	156.450	156.450	
10	156.500	156.500	
11 ³	156.550	156.550	
18A	156.900	156.900	
19A	156.950	156.950	
79A	156.975	156.975	
80A	157.025	157.025	Intership only. Intership only.
88A ⁸	157.425	.....
72 ¹⁴	156.625	.....
Digital Selective Calling			
70 ¹⁵	156.525	156.525	
Noncommercial			
68 ¹⁷	156.425	156.425	Intership only. Great Lakes only. Do. Intership only.
09 ¹⁶	156.450	156.450	
69	156.475	156.475	
71 ¹⁹	156.575	156.575	
72	156.625	.....
78A	156.925	156.925	
79A	156.975	156.975	
80A	157.025	157.025	
67 ¹⁴	156.375	.....
Distress, Safety and Calling			
16	156.800	156.800	
Intership Safety			
06	156.300	a. Intership, or b. For SAR: Ship and air- craft for the U.S. Coast Guard.
Environmental			
15 ¹³	156.750	Coast to ship only.
Maritime Control			
17 ^{9,10}	156.850	156.850	
Liaison and Safety Broadcasts, U.S. Coast Guard			
22A ¹¹	157.100	157.100	Ship, aircraft, and coast stations of the U.S. Coast Guard and at Lake Mead, Nev., ship and coast stations of the National Park Service, U.S. Depart- ment of the Interior.

¹ 156.050 MHz and 156.175 MHz are available for port operations and commercial communications purposes when used only within the U.S. Coast Guard designated Vessel Traffic Services (VTS) area of New Orleans, on the lower Mississippi River from the various pass entrances in the Gulf of Mexico to Devil's Swamp Light at River Mile 242.4 above head of passes near Baton Rouge.

² 156.250 MHz is available for port operations communications use only within the U.S. Coast Guard designated VTS radio protection areas of New Orleans and Houston described in § 80.383. 156.250 MHz is available for intership port operations communications used only within the area of Los Angeles and Long Beach harbors, within a 25-nautical mile radius of Point Fermin, California.

³ 156.550 MHz, 156.600 MHz and 156.700 MHz are available in the U.S. Coast Guard designated port areas only for VTS communications and in the Great Lakes available primarily for communications relating to the movement of ships in sectors designated by the St. Lawrence Seaway Development Corporation or the U.S. Coast Guard. The use of these frequencies outside VTS and ship movement sector protected areas is permitted provided they cause no interference to VTS and ship movement communications in their respective designated sectors.

⁴ Use of 156.875 MHz is limited to communications with pilots regarding the movement and docking of ships. Normal output power must not exceed 1 watt.

⁵ 156.375 MHz and 156.650 MHz are available primarily for intership navigational communications. These frequencies are available between coast and ship on a secondary basis when used on or in the vicinity of locks or drawbridges. Normal output power must not exceed 1 watt. Maximum output power must not exceed 10 watts for coast stations or 25 watts for ship stations.

⁶On the Great Lakes, in addition to bridge-to-bridge communications, 156.650 MHz is available for vessel control purposes in established vessel traffic systems. 156.650 MHz is not available for use in the Mississippi River from South Pass Lighted Whistle Buoy "2" and Southwest Pass entrance Mid-channel Lighted Whistle Buoy to mile 242.4 above Head of Passes near Baton Rouge. Additionally it is not available for use in the Mississippi River-Gulf Outlet, the Mississippi River-Gulf Outlet Canal, and the Inner Harbor Navigational Canal, except to aid the transition from these areas.

⁷Use of 156.375 MHz is available for navigational communications only in the Mississippi River from South Pass Lighted Whistle Buoy "2" and Southwest Pass entrance Mid-channel Lighted Whistle Buoy to mile 242.4 above Head of Passes near Baton Rouge, and in addition over the full length of the Mississippi River-Gulf Outlet Canal from entrance to its junction with the Inner Harbor Navigational Canal, and over the full length of the Inner Harbor Navigational Canal from its junction with the Mississippi River to its entry to Lake Pontchartrain at the New Seabrook vehicular bridge.

⁸Within 120 km (75 miles) of the United States/Canada border, in the area of the Puget Sound and the Strait of Juan de Fuca and its approaches, 157.425 MHz is half of the duplex pair designated as Channel 88. In this area, Channel 88 is available to ship stations for communications with public coast stations only. More than 120 km (75 miles) from the United States/Canada border, in the area of the Puget Sound and the Strait of Juan de Fuca, its approaches, the Great Lakes, and the St. Lawrence Seaway, 157.425 MHz is available for intership and commercial communications. Outside Puget Sound area and its approaches and the Great Lakes, 157.425 MHz is also available for communications between commercial fishing vessels and associated aircraft while engaged in commercial fishing activities.

⁹When the frequency 156.850 MHz is authorized, it may be used additionally for search and rescue training exercises conducted by state or local governments.

¹⁰The frequency 156.850 MHz is additionally available to coast stations on the Great Lakes for transmission of scheduled Coded Marine Weather Forecasts (MAFOR), Great Lakes Weather Broadcast (LAWEB) and unscheduled Notices to Mariners or Bulletins. F3C and J3C emissions are permitted. Coast stations on the Great Lakes must cease weather broadcasts which cause interference to stations operating on 156.800 MHz until the interference problem is resolved.

¹¹The frequency 157.100 MHz is authorized for search and rescue training exercises by state or local government in conjunction with U.S. Coast Guard stations. Prior U.S. Coast Guard approval is required. Use must cease immediately on U.S. Coast Guard request.

¹²The duplex pair for channel 20 (157.000/161.600 MHz) may be used for ship to coast station communications.

¹³Available for assignment to coast stations, the use of which is in accord with an agreed program, for the broadcast of information to ship stations concerning the environmental conditions in which vessels operate, i.e., weather; sea conditions; time signals; notices to mariners; and hazards to navigation.

¹⁴Available only in the Puget Sound and the Strait of Juan de Fuca.

¹⁵The frequency 156.525 MHz is to be used exclusively for distress, safety and calling using digital selective calling techniques. No other uses are permitted.

¹⁶The frequency 156.450 MHz is available for intership, ship and coast general purpose calling by noncommercial vessels, such as recreational boats and private coast stations.

¹⁷The frequency 156.425 MHz is assigned by rule to private coast stations in Alaska for facsimile transmissions as well as voice communications.

¹⁸The frequencies 156.775 and 156.825 MHz are available for navigation-related port operations or ship movement only, and all precautions must be taken to avoid harmful interference to channel 16. Transmitter output power is limited to 1 watt for ship stations, and 10 watts for coast stations.

¹⁹156.575 MHz is available for port operations communications use only within the U.S. Coast Guard designated VTS radio protection area of Seattle (Puget Sound) described in § 80.383. Normal output power must not exceed 1 watt. Maximum output power must not exceed 10 watts.

(g)(1) *On-board communications:* This section describes the carrier frequency pairs assignable for on-board mobile radiotelephony communications. The center of the on-board repeater antenna must not be located more than 3 meters (10 feet) above the ship's working deck. These frequencies are available on a shared basis with stations in the Industrial/Business Radio Pool.

(2) Where needed, equipment designed for 12.5 kHz channel spacing using the additional frequencies 457.5375 MHz, 457.5625 MHz, 467.5375 MHz, and 467.5625 MHz may be introduced for on-board communications.

(h) *Repeater frequencies in Alaska.* The following frequencies are assignable on a primary basis to public and on a secondary basis to private coast stations in Alaska for maritime repeater operations:

Repeater receive: 157.275 MHz
Repeater transmit: 161.875 MHz

(i) *Frequencies in the 1600–5450 kHz band for private communications in Alaska.* The following simplex frequencies are available for assignment to private

fixed stations located in the State of Alaska for radiotelephony communications with ship stations. These simplex frequencies are available for use by authorized ship stations for radiotelephony communications with private fixed stations located in the State of Alaska.

PRIVATE COMMUNICATIONS IN ALASKA CARRIER FREQUENCIES (kHz)

1619.0 ³	2382.0	2563.0
1622.0 ³	2419.0	2566.0
1643.0 ³	2422.0	2590.0
1646.0 ³	2427.0	2616.0
1649.0 ³	2430.0	3258.0
1652.0 ³	2447.0	¹ 3261.0
1705.0 ³	2450.0	4366.0
1709.0	2479.0	4369.0
1712.0	2482.0	4396.0
2003.0	2506.0	4402.0
2006.0	2509.0	4420.0
2115.0	2512.0	4423.0
2118.0	2535.0	² 5167.5
2379.0	2538.0	.....

¹Ship stations must limit use of 3261.0 kHz to communications over distances which cannot be reached by the use of frequency below 2700 kHz or above 156.000 MHz.

²The frequency 5167.5 kHz is available for emergency communications in Alaska. Peak envelope power of stations operating on this frequency must not exceed 150 watts. When a station in Alaska is authorized to use 5167.5 kHz, such station may also use this frequency for calling and listening for the purpose of establishing communications.

Federal Communications Commission

§ 80.375

³Use of these frequencies is on a secondary basis to Region 2 broadcasting.

(j) *Frequencies for portable ship stations.* VHF frequencies authorized for stations authorized carrier frequencies in the 156.275 MHz to 157.450 MHz and 161.575 MHz to 162.025 MHz bands may also be authorized as marine utility stations. Marine-utility stations on shore must not cause interference to any Automatic Identification System, VHF or coast station, VHF or UHF land mobile base station, or U.S. Government station.

[51 FR 31213, Sept. 2, 1986; 51 FR 34984, Oct. 1, 1986]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 80.373, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

§ 80.374 Provisions for frequencies in the 4000–4063 and the 8100–8195 kHz bands shared with the fixed service.

Coast station assignments in the 4000–4063 kHz band deviate from international provisions. Coast station assignments in the 4000–4063 kHz band are permitted provided that such stations must not cause interference to, and must accept interference from, stations operated by other countries in accordance with the Radio Regulations.

(a) *Frequencies in the 4000–4063 kHz band.* (1) The frequencies in the 4000–4063 kHz bands are available to ship and public coast stations for:

(i) Supplementary ship-to-shore duplex operations with coast stations assigned the frequencies described in § 80.371(b) of this part;

(ii) Intership simplex operations and cross-band operations;

(iii) Ship-to-shore or shore-to-ship simplex operations; or

(iv) Duplex operations with coast stations assigned in the band 4438–4650 kHz, as described in § 80.373(d) of this part.

(2) The following table describes the channelization of carrier frequencies in the 4000–4063 kHz band.

CARRIER FREQUENCIES (kHz)			
4000	4015	4030	4045
4003	4018	4033	4048
4006	4021	4036	4051
4009	4024	4039	4054

CARRIER FREQUENCIES (kHz)—Continued

(b) *Frequencies in the 8100–8195 kHz band.* (1) The frequencies in the 8100–8195 kHz bands are available to ship and public coast stations for:

(i) Supplementary ship-to-shore duplex operations with coast stations assigned the frequencies described in § 80.371(b) of this part;

(ii) Intership simplex operations and cross-band operations; or

(iii) Ship-to-shore or shore-to-ship simplex operations.

(2) The following table describes the channelization of carrier frequencies in the 8100–8195 kHz band.

CARRIER FREQUENCIES (kHz)		
8101	8137	8167
8104	8140	8170
8107	8143	8173
8110	8146	8176
8116	8149	8179
8119	8152	8182
8122	8155	8185
8125	8158	8188
8131	8161	8191
8134	8164	

[56 FR 9896, Mar. 8, 1991, as amended at 65 FR 77826, Dec. 13, 2000; 68 FR 46970, Aug. 7, 2003]

RADIODETERMINATION

§ 80.375 Radiodetermination frequencies.

This section describes the carrier frequencies assignable to radiodetermination stations. Only direction finding radar stations will be authorized on land.

(a) *Direction finding frequencies.* The carrier frequencies assignable to ship stations for directional finding operations are:

Carrier Frequency

8364 kHz
121.500 MHz
243.00 MHz

(b) *Radiodetermination frequencies for cable-repair ships.* Except in Region 1 the channels in the 285–325 kHz band are assignable to ship stations for cable-repair radiodetermination operations. In Region 1 the channels available for assignment for such operations are limited to the 285–315 kHz band. The conditions of use of these channels

§ 80.377

47 CFR Ch. I (10–1–10 Edition)

are set forth in subpart X of this part. Channel usage must comply with the following requirements:

- (1) They are not permitted within the territorial waters of a foreign country;
- (2) Their output power must not exceed 15 watts; and
- (3) They must not cause interference to any maritime station in the radionavigation service.

(c) *Radiodetermination frequencies below 500 MHz.* The frequencies 154.585 MHz, 159.480 MHz, 160.725 MHz, 160.785 MHz, 454.000 MHz and 459.000 MHz are authorized for offshore radiolocation and associated telecommand operations under a ship station license provided:

- (1) The use of these frequencies is related to the ship's commercial operations;
- (2) The station antenna height does not exceed 6 meters (20 feet) above sea level in a buoy station or 6 meters (20 feet) above the mast of the ship in which it is installed.

(d) *Radiodetermination frequency bands above 2400 MHz.* (1) The radiodetermination frequency bands assignable to ship and shore radar and transponder stations are as follows: 2450–2500 MHz; 2900–3100 MHz; 5460–5650 MHz; 9300–9500 MHz; and 14.00–14.05 GHz.

(2) Assignment of these bands to ship and coast stations are subject to the following conditions:

- (i) The 2450–2500 MHz band may be used only for radiolocation on the condition that harmful interference must not be caused to the fixed and mobile services. No protection is provided from interference caused by emissions from industrial, scientific, or medical equipment;
- (ii) The use of the 2900–3100 MHz, 5470–5650 MHz and 9300–9500 MHz bands for radiolocation must not cause harmful interference to the radionavigation and Government radiolocation services. Additionally, the use of the 2900–3000 MHz band for radiolocation must not cause harmful interference to the Government meteorological aids service.
- (iii) In the 2920–3100 MHz and 9320–9500 MHz bands the use of fixed-frequency transponders for radionavigation is not permitted;

(iv) Non-Government radiolocation stations may be authorized in the 5460–5470 MHz band on the condition that harmful interference shall not be caused to the aeronautical or maritime radionavigation services or to Government radiolocation service;

(v) The use of the 5460–5650 MHz band for radionavigation is limited to shipborne radar;

(vi) The use of the 14.00–14.05 GHz band will be authorized only for test purposes and maritime radionavigation on a secondary basis to the fixed-satellite service; and

(e) *Search and rescue radar transponder stations.* The technical standards for search and rescue transponder stations are in subpart W of this part.

[51 FR 31213, Sept. 2, 1986, as amended at 52 FR 7419, Mar. 11, 1987; 55 FR 6394, Feb. 23, 1990; 57 FR 26779, June 16, 1992; 58 FR 44953, Aug. 25, 1993; 68 FR 46970, Aug. 7, 2003]

SHIP EARTH STATIONS

§ 80.377 Frequencies for ship earth stations.

The frequency band 1626.5–1645.5 MHz is assignable for communication, radiodetermination and telecommand messages, and developmental operations that are associated with the position, orientation and operational functions of maritime satellite equipment. The frequency band 1645.5–1646.5 MHz is reserved for use in the Global Maritime Distress and Safety System (GMDSS).

[51 FR 31213, Sept. 2, 1986, as amended at 57 FR 26779, June 16, 1992]

AIRCRAFT STATIONS

§ 80.379 Maritime frequencies assignable to aircraft stations.

This section describes the maritime frequencies assignable to aircraft stations for simplex operations:

(a) Available frequencies:

Carrier frequency	Conditions of use
2738 kHz	(1)
2830 kHz	(1)
3023 kHz	(2)
4125 kHz	(3)
5680 kHz	(2)
121.500 MHz	(4)
123.100 MHz	(4)
156.300 MHz	(5)
156.375 MHz	(5)
156.400 MHz	(5)

Federal Communications Commission

§ 80.383

Carrier frequency	Conditions of use
156.425 MHz	(5)
156.450 MHz	(5)
156.625 MHz	(5)
156.800 MHz	(5)
156.900 MHz	(5)
157.100 MHz	(6)
157.425 MHz	(5)(7)

(b) The conditions of use of the carrier frequencies in paragraph (a) of this section, are:

(1) For permissible geographic areas of operation see § 80.373(b)(1). For other limitations see § 80.373(b)(7);

(2) Aircraft and ship stations may use 3023.0 kHz and 5680.0 kHz for search and rescue scene-of-action coordination including communications between these stations and participating land stations. Stations using these frequencies must use J3E emission;

(3) Assignable for distress and safety communications between aircraft and maritime mobile stations;

(4) Assignable for search and rescue between ships and aircraft. Stations using these frequencies must use A3E emission;

(5) These frequencies may be used by aircraft stations when:

(i) The altitude of aircraft stations does not exceed 300 meters (1,000 feet), except for reconnaissance aircraft participating in icebreaking operations where an altitude of 450 meters (1,500 feet) is allowed;

(ii) The mean power of aircraft stations must not exceed five watts;

(iii) Communications are limited to operations in which the maritime mobile stations are primarily involved and where direct communications between the aircraft and the ship or coast station is required;

(iv) Stations may use 156.300 MHz for safety purposes only;

(v) Stations may use 156.800 MHz for distress, safety and calling only; and

(vi) Use of 156.375 MHz by aircraft is not permitted in the New Orleans VTS area specified in § 80.383.

(6) The use of 157.100 MHz is limited to communications with stations of the Department of Interior at Lake Mead, Nevada; and

(7) Commercial fishing vessels and associated aircraft may use 157.425 MHz while engaged in commercial fishing activities except within 120 km (75

miles) of the United States/Canada border and Puget Sound and the Strait of Juan de Fuca and its approaches, the Great Lakes, and the St. Lawrence Seaway.

[51 FR 31213, Sept. 2, 1986, as amended at 58 FR 44953, Aug. 25, 1993]

OPERATIONAL FIXED STATIONS

§ 80.381 Frequencies for operational fixed stations.

The following carrier frequencies in the 72–76 MHz band are assignable to operational fixed stations using vertical polarization, if no harmful interference is caused to TV reception on Channels 4 and 5. These frequencies are shared with the Land Mobile and Aviation Radio Services.

OPERATIONAL FIXED FREQUENCIES IN THE 72–76 MHz BAND, P0,6/7 CARRIER FREQUENCY IN MHZ

72.02	72.28	72.64	72.90	75.68	75.94
72.04	72.30	72.66	72.92	75.70	75.96
72.06	72.32	72.68	72.94	75.72	75.98
72.08	72.34	72.70	72.96	75.74	.....
72.10	72.36	72.72	72.98	75.76	.....
72.12	72.38	72.74	75.42	75.78	.....
72.14	72.40	72.76	75.46	75.80	.....
72.16	72.42	72.78	75.50	75.82	.....
72.18	72.46	72.80	75.54	75.84	.....
72.20	72.50	72.82	75.58	75.86	.....
72.22	72.54	72.84	75.62	75.88	.....
72.24	72.58	72.86	75.64	75.90	.....
72.26	72.62	72.88	75.66	75.92	.....

[51 FR 31213, Sept. 2, 1986, as amended at 54 FR 40059, Sept. 29, 1989]

VESSEL TRAFFIC SERVICES SYSTEM (VTS)

§ 80.383 Vessel Traffic Services (VTS) system frequencies.

This section describes the carrier frequencies available for use in the Coast Guard Vessel Traffic Services (VTS) systems within the designated geographic radio protected areas.

(a) Assigned frequencies:

VESSEL TRAFFIC CONTROL FREQUENCIES

Carrier frequencies (MHz)	Geographic areas
156.250	Seattle.
156.550	New York, New Orleans, ² Houston, Prince William Sound, ² Berwick Bay.

§ 80.385

47 CFR Ch. I (10–1–10 Edition)

VESSEL TRAFFIC CONTROL FREQUENCIES—
Continued

Carrier frequencies (MHz)	Geographic areas
156.600	New York, New Orleans, ² Houston, San Francisco, ² Sault Ste. Marie. ²
156.700	New York, New Orleans, ² Seattle, San Francisco. ¹

¹ Private coast station licenses for the use of this frequency will not be renewed beyond November 1, 1997. Continued use until expiration must be on a noninterference basis to Coast Guard VTS communications.

² Private coast station licenses for the use of this frequency in this area will expire at the end of the current license term or five years after the adopted date of the final rule, whichever comes first. Continued use until expiration must be on a non-interference basis to Coast Guard VTS communications.

(b) The U.S. Coast Guard designated radio protection areas for VTS are as follows:

(1) *New York*. The rectangle between north latitudes 40 degrees and 42 degrees and west longitudes 71 degrees and 74 degrees 30 minutes;

(2) *New Orleans*. The rectangle between North latitudes 27 degrees 30 minutes and 31 degrees 30 minutes and West longitudes 87 degrees 30 minutes and 93 degrees;

(3) *Houston*. The rectangle between north latitudes 28 degrees 30 minutes and 30 degrees 20 minutes and west longitudes 93 degrees 30 minutes and 96 degrees;

(4) *Seattle (Puget Sound)*. The area encompassed between the United States-Canadian border and a line drawn from 49 degrees North 121 degrees West on the United States-Canadian Border, to 46 degrees 30 minutes North 121 degrees West, then to 46 degrees 30 minutes North 125 degrees West, then to 48 degrees 30 minutes North 125 degrees West, and then east to the United States-Canadian Border;

(5) *San Francisco*. The rectangle between north latitudes 39 degrees and 37 degrees and west longitudes 120 degrees 50 minutes and 123 degrees 20 minutes; and

(6) *Prince William Sound*. The rectangle between North latitudes 61 degrees 17 minutes and 59 degrees 22 minutes and West longitudes 149 degrees 39 minutes and 145 degrees 36 minutes.

(7) *Sault Ste. Marie*. The rectangle between North latitudes 45 degrees and 47 degrees, and West longitudes 83 degrees and 85 degrees.

(8) *Berwick Bay*. The rectangle between North latitudes 28 degrees 30

minutes and 30 degrees 30 minutes, and West longitudes 90 degrees 50 minutes and 92 degrees.

(c) The use of the frequencies shown in paragraph (a) of this section is permitted in areas outside the Coast Guard radio protection areas provided there is no interference to VTS communications within the VTS areas.

[51 FR 31213, Sept. 2, 1986, as amended at 52 FR 35245, Sept. 18, 1987; 54 FR 8746, Mar. 2, 1989; 55 FR 46514, Nov. 5, 1990; 58 FR 16504, Mar. 29, 1993; 61 FR 26120, May 24, 1996; 61 FR 26466, May 28, 1996; 63 FR 53313, Oct. 5, 1998]

AUTOMATED SYSTEMS

§ 80.385 Frequencies for automated systems.

This section describes the carrier frequencies for the Automated Maritime Telecommunications System (AMTS) and for other automated multi-station systems.

(a) *Automated Maritime Telecommunications System (AMTS)*. (1) The Automated Maritime Communications System (AMTS) is an automated maritime telecommunications system.

(2) The following carrier frequencies are available for assignment to public coast stations for public correspondence communications with ship stations and units on land. AMTS operations must not cause harmful interference to the U.S. Navy SPASUR system which operates in the band 216.880–217.080 MHz.

Channel No.	Carrier frequency (MHz)		
	Ship transmit ^{1,3}	Coast transmit ²	Group
101	216.0125	D
102	216.0375	
103	216.0625	
104	216.0875	
105	216.1125	
106	216.1375	
107	216.1625	
108	216.1875	
109	216.2125	
110	216.2375	
111	216.2625	
112	216.2875	
113	216.3125	
114	216.3375	
115	216.3625	
116	216.3875	
117	216.4125	
118	216.4375	
119	216.4625	
120	216.4875	C
121	216.5125	
122	216.5375	

Federal Communications Commission

§ 80.385

Channel No.	Carrier frequency (MHz)		Group
	Ship transmit ^{1,3}	Coast transmit ²	
123		216.5625	B
124		216.5875	
125		216.6125	
126		216.6375	
127		216.6625	
128		216.6875	
129		216.7125	
130		216.7375	
131		216.7625	
132		216.7875	
133		216.8125	
134		216.8375	
135		216.8625	
136		216.8875	
137		216.9125	
138		216.9375	
139		216.9625	
140		216.9875	
141	219.0125	217.0125	
142	219.0375	217.0375	
143	219.0625	217.0625	
144	219.0875	217.0875	A
145	219.1125	217.1125	
146	219.1375	217.1375	
147	219.1625	217.1625	
148	219.1875	217.1875	
149	219.2125	217.2125	
150	219.2375	217.2375	
151	219.2625	217.2625	
152	219.2875	217.2875	
153	219.3125	217.3125	
154	219.3375	217.3375	
155	219.3625	217.3625	
156	219.3875	217.3875	
157	219.4125	217.4125	
158	219.4375	217.4375	
159	219.4625	217.4625	
160	219.4875	217.4875	
161	219.5125	217.5125	
162	219.5375	217.5375	
163	219.5625	217.5625	
164	219.5875	217.5875	
165	219.6125	217.6125	
166	219.6375	217.6375	
167	219.6625	217.6625	
168	219.6875	217.6875	
169	219.7125	217.7125	
170	219.7375	217.7375	
171	219.7625	217.7625	
172	219.7875	217.7875	
173	219.8125	217.8125	
174	219.8375	217.8375	
175	219.8625	217.8625	
176	219.8875	217.8875	
177	219.9125	217.9125	
178	219.9375	217.9375	
179	219.9625	217.9625	
180	219.9875	217.9875	

¹Ship transmit frequencies in Groups C and D are not authorized for AMTS use.

²Coast station operation on frequencies in Groups C and D are not currently assignable and are shared on a secondary basis with the Low Power Radio Service in part 95 of this chapter. Frequencies in the band 216.750–217.000 MHz band are available for low power point-to-point network control communications by AMTS coast stations under the Low Power Radio Service (LPRS). LPRS operations are subject to the conditions that no harmful interference is caused to the United States Navy's SPASUR radar system (216.88–217.08 MHz) or to TV reception within the Grade B contour of any TV channel 13 station or within the 68 dBu predicted contour of any low power TV or TV translator station operating on channel 13.

³Ship transmit frequencies in Groups A and B are permitted to provide mobile-to-mobile communications where the written consent of all affected licensees is obtained.

(3) As listed in the table in this paragraph, AMTS Areas (AMTSAs) are based on, and composed of one or more of, the U.S Department of Commerce's 172 Economic Areas (EAs). See 60 FR 13114 (March 10, 1995). In addition, the Commission shall treat Puerto Rico, the United States Virgin Islands, and the Gulf of Mexico as EA-like areas. The Gulf of Mexico EA extends from 12 nautical miles off the United States Gulf coast outward into the Gulf. See §27.6(a)(2) of this chapter and 62 FR 9636. Maps of the EAs and AMTSAs are available for public inspection and copying at the Federal Communications Commission, Reference Center, 445 12th Street, SW., Room CY A257, Washington, DC 20554. These maps and data are also available on the FCC Web site at www.fcc.gov/oet/info/maps/areas/. The Group A and B frequency pairs listed in the table in paragraph (a)(2) of this section are available for assignment to a single licensee in each of the AMTSAs listed in the table in this paragraph. In addition to the listed EAs listed in the table in this paragraph, each AMTSA also includes the adjacent waters under the jurisdiction of the United States.

AMTS AREAS (AMTSAs)

AMTSAs	EAs
1 (Northern Atlantic)	1–5, 10 9, 11–23, 25, 42, 46
2 (Mid-Atlantic)	24, 26–34, 37, 38, 40, 41, 174
3 (Southern Atlantic)	35, 36, 39, 43–45, 47–53, 67–107, 113, 116–120, 122–125, 127, 130–134, 176 6–8, 54–66, 108, 109
4 (Mississippi River)	160–165 147, 166–170
5 (Great Lakes)	172
6 (Southern Pacific)	171 110–112, 114–115, 121, 126, 128, 129, 135–146, 148–159
7 (Northern Pacific)	
8 (Hawaii)	
9 (Alaska)	
10 (Mountain)	

(4) Channels in the 219–220 MHz band are also used on a secondary, non-interference basis by amateur stations participating in digital message forwarding systems. Amateur stations may not cause harmful interference to AMTS operations and must accept any

§ 80.387

harmful interference from AMTS operation. Amateur stations within 80 km (50 miles) of an AMTS coast station must obtain written approval from the AMTS licensee prior to operating in the 219–220 MHz band. Amateur stations within 640 km (398 miles) of an AMTS coast station must notify the AMTS licensee in writing at least 30 days prior to initiation of operations in the 219–220 MHz band. All amateur stations must notify the American Radio Relay League in writing at least 30 days prior to initiation of operations in the 219–220 MHz band (ARRL, 225 Main St., Newington, CT 06111-1494).

(b) Subject to the requirements of § 1.924 of this chapter, §§ 80.215(h), and 80.475(a), each AMTS geographic area licensee may place stations anywhere within its region without obtaining prior Commission approval provided:

(1) The AMTS geographic area licensee must locate its stations at least 120 kilometers from the stations of co-channel site-based AMTS licensees. Shorter separations between such stations will be considered by the Commission on a case-by-case basis upon submission of a technical analysis indicating that at least 18 dB protection will be provided to a site-based licensee's predicted 38 dBu signal level contour. The site-based licensee's predicted 38 dBu signal level contour shall be calculated using the F(50, 50) field strength chart for Channels 7–13 in § 73.699 (Fig. 10) of this chapter, with a 9 dB correction for antenna height differential. The 18 dB protection to the site-based licensee's predicted 38 dBu signal level contour shall be calculated using the F(50, 10) field strength chart for Channels 7–13 in § 73.699 (Fig. 10a) of this chapter, with a 9 dB correction factor for antenna height differential.

(2) The locations and/or technical parameters of the transmitters are such that individual coordination of the channel assignment(s) with a foreign administration, under applicable international agreements and rules in this part, is not required.

(3) For any construction or alteration that would exceed the requirements of § 17.7 of this chapter, licensees must notify the appropriate Regional Office of the Federal Aviation Administration (FAA Form 7460-1) and file a re-

47 CFR Ch. I (10–1–10 Edition)

quest for antenna height clearance and obstruction marking and lighting specifications (FCC Form 854) with the FCC, Attn: Information Processing Branch, 1270 Fairfield Rd., Gettysburg, PA 17325-7245.

(4) The transmitters must not have a significant environmental effect as defined by §§ 1.1301 through 1.1319 of this chapter.

(c) Any recovered frequency blocks will revert automatically to the holder of the geographic area license within which such frequencies are included. Any frequency blocks recovered where there is no geographic area licensee will be retained by the Commission for future licensing.

[51 FR 31213, Sept. 2, 1986, as amended at 54 FR 29041, July 11, 1989; 56 FR 3783, Jan. 31, 1991; 57 FR 26780, June 16, 1992; 60 FR 15687, Mar. 27, 1995; 61 FR 46566, Sept. 4, 1996; 67 FR 48565, July 25, 2002; 69 FR 19948, Apr. 15, 2004; 69 FR 44471, July 26, 2004; 73 FR 4486, Jan. 25, 2008; 75 FR 10692, Mar. 9, 2010]

ALASKA FIXED STATIONS

§ 80.387 Frequencies for Alaska fixed stations.

(a) The carrier frequencies listed in (b) of this section are assignable for point-to-point simplex radiotelephone communications between private fixed stations in Alaska. The frequency pairs listed in paragraph (d) of this section are assignable for point-to-point duplex radiotelephone communications between private and public fixed stations in Alaska. Fixed stations in Alaska authorized to share carrier frequencies with the maritime mobile service must always give priority on such frequencies to maritime distress, urgency and safety communications.

(b) *Alaska private-fixed station frequencies:*

CARRIER FREQUENCIES (kHz)		
1643.0 ⁴	2430.0	2773.0
1646.0 ⁴	2447.0	3164.5
1649.0 ⁴	2450.0	3183.0
1652.0 ⁴	2463.0	3196.0
1657.0 ⁴	2466.0	3201.0
1660.0 ^{1,4}	2471.0	3258.0
1705.0 ⁴	2479.0	3261.0
1709.0	2482.0	3303.0
1712.0	2506.0	3365.0
2003.0	2509.0	4035.0
2006.0	2512.0	5164.5

Federal Communications Commission

§ 80.391

CARRIER FREQUENCIES (kHz)—Continued

2115.0	2535.0	³ 5167.5
2118.0	2538.0	5204.5
2253.0	2563.0	² 6948.5
2400.0	2566.0	² 7368.5
2419.0	2601.0	8067.0
2422.0	2616.0	8070.0
2427.0	2691.0	² 11437.0
		^{2,5} 11601.5

¹ Use of 1660.0 kHz must be coordinated to protect radiolocation on adjacent channels.

² Peak envelope power must not exceed 1 kW for radiotelephony. Teleprinter use is authorized.

³ The frequency 5167.5 kHz is available for emergency communications in Alaska. Peak envelope power of stations operating on this frequency must not exceed 150 watts. When a station in Alaska is authorized to use 5167.5 kHz, such station may also use this frequency for calling and listening for the purpose of establishing communications.

⁴ Use of these frequencies is on a secondary basis to Region 2 broadcasting.

⁵ After April 1, 2007, use of the frequency 11601.5 kHz shall be on the condition that harmful interference is not caused to HF broadcasting.

(c) Use of the frequencies in paragraph (b) of this section must meet the following conditions:

(1) Communications between private coast and private fixed stations are prohibited; and

(2) Station licensees must not charge for third party communication services between their station and any other private fixed station.

(d) The following carrier frequency pairs are assignable for point-to-point communications between public fixed and private fixed stations:

Public fixed station frequencies (kHz)	Private fixed Station frequencies (kHz)
¹ 2312.0	2632.0
2604.0	2256.0
2781.0	³ 2474.0
2784.0	2694.0
3167.5	3354.0
3180.0	2776.0
3241.0	3357.0
3362.0	3238.0
² 4791.5	5207.5
5370.0	⁴ 5134.5, ⁴ 5137.5

¹ This frequency is assignable on a primary basis to public coast stations and on a secondary basis to public fixed stations.

² Teleprinter use is authorized.

³ Peak envelope power must not exceed 1 kW.

⁴ Licensees must cease all communications on 5134.5 kHz and 5137.5 kHz when notified by the State of Alaska of an emergency or disaster. Licensees may resume communication on these frequencies when notified by the State of Alaska that the disaster or harmful interference has ended.

(e) The public fixed station frequencies are assignable to common carriers.

(f) The private fixed station frequencies described in paragraph (d) of this section are assignable to private

entities located in areas where common carrier facilities are not available. Private fixed stations operating on the frequencies in paragraph (d) of this section, must communicate with public fixed stations only. Private fixed stations are permitted to provide third party communications between their station and the public fixed stations. A charge for such service is prohibited.

(g) U.S. Government frequencies will be authorized if the Commission determines that the assignment is in the public interest.

[51 FR 31213, Sept. 2, 1986, as amended at 52 FR 35245, Sept. 18, 1987; 56 FR 34030, July 25, 1991; 68 FR 25540, May 13, 2003]

MARITIME SUPPORT STATIONS

§ 80.389 Frequencies for maritime support stations.

(a) *Marine receiver test.* Maritime support stations will be authorized to conduct receiver tests on the ship station frequencies of the channels assigned to the associated public coast station.

(b) *Shore radar and radiolocation tests.* The following frequency bands are available for assignment to demonstrate radar and radiolocation equipment. The use of frequencies within these bands must not cause harmful interference to the radionavigation service and the Government radiolocation service: 2450–2500 MHz, 2900–3100 MHz, 5460–5650 MHz, 9300–9500 MHz, 14.0–14.05 GHz.

DEVELOPMENTAL STATIONS

§ 80.391 Frequencies for developmental stations.

(a) Ship and shore stations engaged in developmental operations may be assigned any frequency or frequencies assignable to the service and class of station they propose to operate. The following frequency bands are also assignable to ships and coast stations for developmental operations:

Ship transmit	Coast transmit
5350–5460 MHz ¹	5350–5460 MHz ¹
6425–6525 MHz	
9000–9200 MHz ¹	9000–9200 MHz ¹
11700–12200 MHz	11700–12200 MHz
17700–19700 MHz	

§ 80.393

Ship transmit	Coast transmit
27500–29500 MHz	

¹The bands 5350–5460 MHz and 9000–9200 MHz are assignable for developmental operations at ship and shore radiolocation stations if their operations do not cause harmful interference to aeronautical radionavigation or Government radiolocation services.

(b) Stations authorized to conduct developmental operations are prohibited from communicating with any station of a country other than the United States.

(c) Stations authorized to conduct developmental operations must not cause harmful interference to the operation of stations authorized in other public services nor to any United States Government or foreign station.

AIS STATIONS

§ 80.393 Frequencies for AIS stations.

Automatic Identification Systems (AIS) are a maritime broadcast service.

47 CFR Ch. I (10–1–10 Edition)

The simplex channels at 161.975 MHz (AIS 1) and 162.025 MHz (AIS 2), each with a 25 kHz bandwidth, may be authorized only for AIS. In accordance with the Maritime Transportation Security Act, the United States Coast Guard regulates AIS carriage requirements for non-Federal Government ships. These requirements are codified at 33 CFR 164.46, 401.20.

[74 FR 5125, Jan. 29, 2009]

Subpart I—Station Documents

§ 80.401 Station documents requirement.

Licensees of radio stations are required to have current station documents as indicated in the following table: